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ABSTRACT

Presented are detailed statistical tables that show research and development (R&D) levels for the fiscal years 1978, 1979, and 1980, reported by 92 federal agencies in the March-May period of 1979. In the tables, data for 1978 are considered to be actual; data for 1979 and 1980 are estimated. All agencies with R&D programs are covered. R&D totals are given in the tables in both outlays and obligations, and the R&D obligational data are distributed by character of work, performer, field of science, and federal R&D support by states. Research performed at universities and colleges by fields of science is also shown. R&D plant data are also provided. (CS)

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federal funds for research and development

fiscal years 1978, 1979, and 1980

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volume XXVIII

detailed statistical tables

NSF 79-318

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general notes

The tables in appendix C have been derived from the *Federal Funds for Research and Development*, Volume XXVIII survey. This survey represents a later and more detailed classification of the R&D portion of the Federal budget than the tables that appeared in a chapter of *Special Analyses, Budget of the United States Government, Fiscal Year 1980*, "Special Analysis L: Research and Development". The data in the appendix tables show R&D funding levels as reported by 92 Federal agencies in the March-May period of 1979, following the President's budget message in January. All agencies with R&D programs were covered. R&D totals are given in the tables in both outlays and obligations, and the R&D obligational data are distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by States. Research performed at universities and colleges by fields of science is also shown. R&D plant data are further provided.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency and regardless of whether or not the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables data for 1978 are considered to be actual since they represent virtually completed transactions. Data for 1979 and 1980 are estimated since they do not represent final actions. **Since the timing of the *Federal Funds* survey coincided with the second quarter of fiscal year 1979, the amounts reported for 1979 reflect congressional appropriation actions prior but not subsequent to this period and they do not reflect later appropriation, apportionment, and reprogramming decisions. The amounts reported for 1980 are subject to the whole cycle of congressional authorization and appropriation actions and subsequent executive apportionment.** The effects of these actions will be reflected in later surveys and reports in this series, such as a *Science Resources Studies Highlights* on the Volume XXVIII data including congressional actions on the 1980 budget.

It is important to note that judgment must often be used by the agencies in classifying the data. Most R&D programs have to be separated by respondents from larger programs since they are not identified as budget line items. Also, even though agencies are provided with specific definitions, an element of respondent judgment is involved in decisions as to which areas constitute basic research, applied research, development, and specific fields of science.

Other limitations to the data should be noted. In the case of the Department of Defense (DOD) the agency has not been able to identify the headquarters cost of administering R&D programs (estimated at less than 1 percent of the DOD R&D total), and to this extent full R&D costs are not reported. Also, R&D plant data are understated because of the difficulty encountered by some agencies in identifying R&D plant within contracts for research and development. DOD can identify only limited portions of R&D plant in contracts funded from the RDT&E appropriation. The National Aeronautics and Space Administration (NASA) faces a similar problem in reporting R&D plant data.

Despite the fact that the differences between the *Federal Funds* requirements and the internal reporting systems of many agencies often call for judgment, the reporting experience of most agencies and their interaction over the years with the National Science Foundation (NSF) staff have worked to enhance the reliability of the data. Sometimes revisions in reporting by categories are important enough to warrant revisions of prior-year data by agencies. **Therefore, only the historical data contained in appendix C (tables C-108 through C-121) should be used and not those in previously published appendix tables.**

The report, *Federal Funds for Research and Development*, Volume XXVIII, will be published at a later data. It will contain an analysis of the R&D portion of the 1980 Federal budget, comparing Federal R&D support with broader economic indicators and describing and analyzing various aspects of current R&D programs. One key portion of the report will be an analysis by budget functions. The report will provide a number of summary tables and charts but will not include the detailed statistical tables contained in this volume.

Inquiries relating to *Federal Funds*, Volume XXVIII should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

appendix a

technical notes

scope and method

During the March-May 1979 period a total of 36 Federal agencies and their subdivisions—92 individual respondents—submitted data in response to a survey questionnaire developed by the Foundation and distributed in January 1979. With the exception of NASA, the data received from the agencies were in terms of obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. NASA reported 1978, 1979, and 1980 transactions in terms of budget plan, which approximates obligations.

Federal agencies had provided R&D data earlier to the Office of Management and Budget (OMB) for inclusion in "Special Analysis L: Research and Development" in *The Budget of the United States Government, Fiscal Year 1980*. While the R&D data in that report and this one are reconcilable, the data in the *Federal Funds* report are more comprehensive and are distributed in greater detail. (See Relation to Other Reports, p. 5.) The *Federal Funds* report also incorporates revisions that have resulted from changes made in the R&D portion of agency budgets subsequent to the budget message of the President to Congress in January 1979.

definitions

The definitions are essentially unchanged from prior issues of the *Federal Funds* series.

1. research, development, and r&d plant

This heading includes all direct, indirect, incidental, or related costs resulting from or necessary to research, development, and R&D plant, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without having in mind specific applications toward processes or products.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and radio telescopes) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land, for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable equipment and office furniture and equipment. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

2. obligations and outlays

a. **Obligations** represent the amounts for orders placed, contracts awarded,

services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

b. **Outlays** represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The obligations and outlays reported cover all transactions from all funds available to the agency from direct appropriations, trust funds, or special account receipts, corporate income, or other sources, including funds appropriated by the President, that the agency has received or expects to receive. The amounts reported for each year reflect obligations and outlays for that year regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

An agency making a transfer of funds to another agency includes such transfers in its report of obligations and outlays. The receiving agency does not report, for purposes for this survey, funds transferred to it from another agency. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed in foreign countries include funds directly available to Federal agencies and special foreign currencies separately appropriated. The latter currencies are derived largely from provisions of Public Law 480, 1954, as amended.

3. cost coverage

Funds reported for research and development reflect full costs. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. fiscal year

The fiscal year in the Government accounting period begins October 1 of one year and ends September 30 of the following year; thus, fiscal year 1978 began on October 1, 1977 and ended September 30, 1978.

5. agency

An agency is an organization of the Federal Government whose principal executive officer reports to the President. The only exception is the Library of Congress, also included in the survey, whose executive officer reports to the Congress. The term subdivision refers to any major organizational unit of a reporting agency, such as a bureau, division, office, or service.

6. performers

Performers are either *intramural* organizations accomplishing operating functions or *extramural* organizations or persons receiving support or providing services under a contract or grant.

a. **Intramural performers** are agencies of the Federal Government. Their work is carried on directly by their own personnel. Obligations reported under this category are for activities performed directly by the reporting agency, or they represent funds that the agency transfers to another Federal agency for performance of work. The ultimate performer must be a Federal agency. If the ultimate performer is not a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities and colleges, other nonprofit institutions). Intramural performance includes the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and development. Also included as part of the intramural performance total are the expenses of Federal personnel engaged in planning and administering intramural and extramural R&D programs.

b. **Extramural performers** are all organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual extramural R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. However, the costs of "off-the-shelf" supplies and equipment procured from extramural suppliers and required to support intramural research and development should be considered as part of the costs of intramural performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

i. **Industrial firms** are those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges** are institutions engaged primarily in providing resident instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals; associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions** are private organizations other than educational institutions, no part of whose net earnings inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit institutions.

iv. **Federally funded research and development centers (FFRDC's)** are R&D-performing organizations exclusively or substantially financed by the Federal Government that are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered by one of the above extramural performers.

In general, all of the following criteria are met by an institutional unit before it is included in the FFRDC category: (1) Its primary activities include one or more of the following: Basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and

surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned or are funded under contract with the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments** are State and local government agencies, excluding State and local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local educational institutions are included under the universities and colleges sector in this survey.) Research and development under the State and local government category are performed either by State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal F&D funds directed to State and local governments are reported under the State and local government sector and no other.

vi. **Foreign performers** are foreign citizens, organizations, or governments, as well as international organizations, such as NATO, UNESCO, WHO, performing work abroad financed by the Federal Government. Excluded are payments to U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "offshore" payments. Also excluded are payments to foreign scientists performing in the United States.

vii. **Private individuals.** In the case of an R&D grant or contract awarded directly to a private individual, obligations are reported under "industrial firms."

7. fields of science

The fields of science in this survey are divided into eight broad field categories, each of them consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The following listing presents the fields grouped under each of the broad fields, together with illustrative disciplines.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are not intended to be sharp definitions; they represent examples of disciplines generally classified under a given detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. Examples of disciplines under each of the detailed fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.[1]

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.[1]

Agricultural: agronomy; animal sciences, food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.[1]

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.[1]

Life sciences, n.e.c.[1]

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology.

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality.

Psychological sciences, n.e.c.[1]

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy.

Chemistry: inorganic; organo-metallic; organic; physical.

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma.

Physical sciences, n.e.c.[1]

d. **Environmental sciences** (terres-

[1] Not elsewhere classified: Includes multidisciplinary projects within a broad field and single-discipline projects for which a separate field has not been assigned.

trial and extraterrestrial) are concerned with the gross nonbiological properties (with one exception) of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. The one exception is that obligations for studies pertaining to life in the sea, or other bodies of water, are reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; solar, weather modification; extraterrestrial atmospheres; meteorology.

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics.

Environmental sciences, n.e.c.[1]

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under each of these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology.

Computer sciences: programming languages; computer and information sciences (general); design development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis.

Mathematics and computer sciences, n.e.c.[1]

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

Civil: architectural; hydraulic, hydrologic; marine; sanitary and environmental; structural; transportation.

Electrical: communication; electronic power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

Engineering, n.e.c.[1] agricultural; industrial and management; nuclear; ocean engineering systems.

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These sciences include anthropology, economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropolgy.

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macreconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development.

Political sciences: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration.

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions, social problems and social welfare; sociological theory.

Social sciences, n.e.c.[1] linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess impact on society of legal systems and practices.

h. **Other sciences not elsewhere classified** includes multidisciplinary and interdisciplinary projects that cannot be classified within one of the above broad fields of science.

8. geographic distribution of 1978 r&d obligations

a. Ten agencies participated in the survey on the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for 98 percent of total Federal R&D and R&D plant obligations in 1978. The respondents were the Departments of Agriculture; Commerce; Defense; Energy; the Interior; Transportation; and Health, Education, and Welfare; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

b. Data for 1978 were requested in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. Where this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, etc. where the prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers.

changes in reporting

Responses from the agencies in this survey, as in the previous ones, reflect updating of estimates for the latest two years of the previous report. Such updating is part of the budgetary cycle. In addition, from time to time responses reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this oc-

curs, the National Science Foundation requires the agencies to revise prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for research and development are reported on a 3-year basis comparable with the 1980 budget, upon which the data are based. The respondents have reconciled the data reported here with amounts for research and development shown in *The Budget of the United States Government, Fiscal Year 1980*. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when the funds were authorized or received by an agency and regardless of whether or not the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Data submitted by the Federal agencies for 1978 are considered to be actual since they represent virtually completed transactions. Amounts reported for 1979 and 1980 are estimates in that they are subject to further appropriation, apportionment, or allocation decisions. The effects of those and other later actions on 1979 and 1980 outlays and obligations will be reflected in the next report.

It is important to note that respondent judgment is often necessary in classifying the data. Because of the many-sided nature of R&D programs, it is difficult to establish agreed-upon criteria for allocating efforts among the character-of-work categories and the various fields of science. Nonetheless, the participating agencies have over the years developed increasingly consistent systems for classifying R&D data. When changes have been made in agency reporting, revisions have been incorporated into the historical data to improve the comparability and consistency of the statistical series.

In some cases agencies have not been able to report the full cost of research and development. For example, the headquarters costs of planning and administering R&D programs of DOD are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data reported here are to some extent understated because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under the construction appropriation, DOD is able to identify only a small portion of the amount of R&D plant support within R&D contracts that are funded from the RDT&E appropriation. NASA does not separately identify those portions of industrial R&D contracts applicable to R&D plant but includes R&D plant in the R&D data covering industrial performance.

relation to other reports

1. federal support to universities and colleges

NSF prepares separate reports covering Federal support to individual universities and colleges. These reports are based on data provided by the Federal agencies under the reporting system established by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. These reports are referred to in this publication as the *Federal Support to Universities* (CASE) reports.

Both the CASE and *Federal Funds* reports provide data on Federal obligations for research and development and R&D plant to universities and colleges and to university-administered FFRDC's. The CASE report, however, is based on obligations of Federal agencies to each individual academic institution, while the *Federal Funds* report is concerned with obligations to universities and colleges as a performer group. The CASE report also includes funds for non-R&D activities, such as science education and nonscience support. Further, the CASE study is based on reports of only 14 agencies (the Departments of Agriculture; Commerce; Defense; Energy; Health, Education, and Welfare; Housing and Urban Development; the Interior; Labor; and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; the National Science Foundation; the Agency for International Development; and the Nuclear Regulatory Commission) while *Federal Funds* is composed of obligations of all agencies. The 14 respondents to CASE, however, account for more than 99 percent of the Federal R&D total to universities and colleges and all obligations to university-administered FFRDC's.

The different reporting procedures have led to different amounts being reported by CASE and *Federal Funds* as follows:

a. The obligations for research and development to universities and colleges reported for *Federal Funds* in 1978 amounted to $3,400 million, or $27 million more than the amount reported for CASE. Part of this difference can be attributed to variations in the amounts reported by the National Institutes of Health (HEW). The *Federal Funds* R&D total for the National Institutes of Health included funds for General Research Support grants, whereas in CASE these were placed under the category of "general support for science," which is a non-R&D area under the CASE definition.

b. The R&D obligation total to university-administered FFRDC's reported to *Federal Funds* was $1,326 million in 1978, or $129 million less than reported for CASE. For *Federal Funds* $108 million subcontracted by the NASA Jet Propulsion Laboratory was included in ultimate-performer categories, such as industry, while for CASE the subcontracted amount was included in the R&D obligations to FFRDC's administered by universities.

c. The total R&D plant obligations to universities and colleges reported for *Federal Funds* was $55 million in 1978, or $21 million more than the amount reported for CASE.

d. The total R&D plant obligations to FFRDC's administered by universities and colleges reported for *Federal Funds* was $376 million in 1978, or $162 million more than reported for CASE.

The following factors should also be considered in comparing the data ap-

pearing in the two reports:

For *Federal Funds* each agency includes in its own obligations the amounts transferred to other agencies for furtherance of its work, and a receiving agency does not report funds transferred from another agency. On the other hand, in the CASE survey, the data are reported by the agency that makes the *final* distribution of the funds to a given institution. Thus, for the CASE survey, agencies include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the *Federal Funds* process. While such transfers should balance each other out with no resulting changes in total R&D obligations, these opposite reporting practices do add to the possibility of differences between the two reports.

The CASE reports, in most instances, are prepared by different operational units within the agencies than those that prepare the *Federal Funds* responses. Furthermore, the CASE data are collected several months earlier than the *Federal Funds* statistics. Although, in theory, these conditions should not add to reporting differences, in practice differences do arise.

2. special analyses, budget of the united states

In a section of *Special Analyses, Budget of the United States Government*, the Office of Management and Budget (OMB) publishes estimates of obligations and outlays for research, development, and R&D plant. However, the data in "Special Analysis L: Research and Development" in the 1980 budget do not provide as much detail on character of work or performers as *Federal Funds* and no information on fields of science or geographic distribution.

"Special Analysis L" and *Federal Funds* utilize the same definitions for research and development and for R&D plant. The estimates for research and development published in the two reports are comparable, even though minor differences exist. The differences between the two reports are as follows:

Total R&D obligations
(Billions of dollars)

	FY 1978	FY 1979	FY 1980
Federal Funds	$ 26.4	$ 29.6	$ 30.7
Special Analysis L ...	26.2	29.4	30.6

3. federal r&d funding by budget function: fiscal years 1978-80

NSF published a special report under the above title, providing an analysis of Federal R&D programs by budget functional categories. *Federal Funds*, Volume XXVIII, by contrast, reports on R&D funding by agencies rather than functional categories. It uses obligation data rather than budget authority data, which were the basis for the function report. The R&D budget authority data for 1978-80 in the function report were based on information provided to OMB by the agencies as background for "Special Analysis L" in the 1980 budget. Further, detailed program information was based on budget justification documents of the leading R&D support agencies and information provided directly to NSF by some of the smaller agencies.

4. other reports

a. Individual agencies may classify their R&D programs for purposes other than those for which the *Federal Funds* survey is conducted. Definitions and guidelines that are suitable to these other purposes may result in information that is not comparable with the data transmitted to NSF for *Federal Funds*.

b. *The Budget of the United States Government, Fiscal Year 1980* is the source of data on outlays, but the NSF definition of relatively uncontrollable outlays differs from that of OMB in that OMB designates outlays from prior-year contracts and obligations as relatively uncontrollable, whereas NSF considers this category of outlays to be initially controllable and therefore different in concept from fixed-cost and open-ended programs like social security, veterans compensation and pensions, and interest on the national debt, which make up the rest of budget uncontrollable outlays.

The latter class of outlays are uncontrollable in that their disbursements fluctuate with the provisions of ongoing laws rather than with yearly authorizations and appropriations. All outlays that require appropriation decisions by the Congress are considered by NSF to be relatively controllable; such outlays cover all R&D programs. See *The Budget, 1980*, p. 560.

sources

Data on R&D funds in this report for years prior to 1952 were compiled by the Bureau of the Budget, and subsequent data were based on NSF surveys. These data have been published in previous issues of this series, but certain adjustments have been made to achieve comparability with the latest reporting concepts evolved by the agencies.

Supplementing the statistical data collected through the NSF survey of Federal agencies, a variety of sources were used for the text of this report, including the narrative statements submitted by the agencies in the NSF survey, published records of testimony presented by agencies to committees of the Senate and the House, the *1980 Budget Appendix*, and personal contacts with agency respondents.

appendix b

federally funded research and development centers, fiscal years 1978-80

department of defense

office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses (IDA), Arlington, VA

department of the navy

Administered by universities and colleges:

Center for Naval Analyses (University of Rochester), Arlington, VA

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, CA

C^3 Division, MITRE Corporation,[1] Bedford, MA

Project Air Force, RAND Corporation, Santa Monica, CA

[1] Starting with fiscal year 1979 only the C^3 Division of the MITRE Corporation was reported as an FFRDC. All other agency support to MITRE was reported in this survey under "nonprofit institutions excluding FFRDC's."

department of health, education and welfare

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Center (Litton Bionetics, Inc., Litton Industries), Frederick, MD

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), Pittsburgh, PA

Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, WA

Idaho National Engineering Laboratory (Aeroject Nuclear Corp.), Idaho Falls, ID

Knolls Atomic Power Laboratory (General Electric Company), Schenectady, NY

Liquid Metal Engineering Center (Rockwell International Corporation), Santa Susana, CA

Mound Laboratory (Monsanto Research Corp.), Miamisburg, OH

Oak Ridge National Laboratory (Union Carbide Corp.), Oak Ridge, TN

Sandia Laboratory (Western Electric Co., Inc.-Sandia Corp.), Albuquerque, NM

Savannah River Laboratory (E.I. duPont de Nemours & Co., Inc.), Aiken, SC

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, IA

Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, IL

Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY

E. O. Lawrence Berkeley Laboratory (University of California), Berkeley, CA

E. O. Lawrence Livermore Laboratory (University of California), Livermore, CA

Fermilab (Universities Research Association, Inc.), Batavia, IL

Los Alamos Scientific Laboratory (University of California), Los Alamos, NM

Oak Ridge Institute of Nuclear Studies (Oak Ridge Associated Universities), Oak Ridge, TN

Plasma Physics Laboratory (Princeton University), Princeton, NJ

Stanford Linear Accelerator Center (Stanford University), Stanford, CA

Administered by other nonprofit institutions:

Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, WA

Solar Energy Research Institute (Midwest Research Institute), Golden, CO

national aeronautics and space administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

Space Radiation Effects Laboratory (College of William and Mary), Williamsburg, VA

national science foundation

Administered by universities and colleges:

Cerro Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.), La Serena, Chile

Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ

National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR

National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO

National Radio Astronomy Observatory (Associated Universities, Inc), Green Bank, WV

Sacramento Peak Observatory (Association of Universities for Research in Astronomy, Inc.), Sunspot, NM

appendix c

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notes

- Estimates for 1980 are based on the *Budget of the United States Government, Fiscal Year 1980* as submitted to Congress by the administration, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Joint Chiefs of Staff.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- Within the Department of Agriculture the heading Federal Research has been replaced by Agricultural Research.
- Within the Department of Transportation the Research and Special Programs Administration replaces the Research and Special Programs Directorate.
- The Federal Emergency Management Agency encompasses the National Fire Prevention and Control Administration formerly within the Department of Commerce, which is now named the United States Fire Administration.
- The Office of Personnel Management replaces the Civil Service Commission.
- These appendix tables (Volume XXVIII) providing data on R&D totals for 1970 through 1977 are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. The National Institutes of Health within the Department of Health, Education, and Welfare and the Department of the Air Force within the Department of Defense have revised prior-year data affecting amounts shown for basic research, applied research, development, performers, and fields of science.

NOTE: For trend comparisons, use only these tables, Appendix C, for Volume XXVIII; do not use earlier tables.

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	25,705.0	29,005.1	31,072.3
RESEARCH AND DEVELOPMENT	24,597.2	27,663.0	29,604.8
R&D PLANT	1,107.8	1,342.0	1,467.5
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	27,710.0	31,007.7	32,228.3
RESEARCH AND DEVELOPMENT	26,414.3	29,576.0	30,732.9
PERFORMERS:			
FEDERAL INTRAMURAL(1)	6,882.0	7,521.5	7,747.4
INDUSTRIAL FIRMS	11,839.5	13,651.0	14,261.0
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,242.5	1,254.7	1,268.3
UNIVERSITIES AND COLLEGES	3,399.5	3,864.3	4,047.6
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,325.6	1,411.4	1,499.7
OTHER NONPROFIT INSTITUTIONS	1,017.6	1,139.9	1,090.4
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	315.9	328.6	396.1
STATE AND LOCAL GOVERNMENTS	268.4	280.2	288.8
FOREIGN	123.2	124.3	127.1
RESEARCH	9,750.9	10,889.2	11,593.3
PERFORMERS:			
FEDERAL INTRAMURAL(1)	3,216.9	3,546.0	3,714.2
INDUSTRIAL FIRMS	1,792.7	2,051.0	2,287.3
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	235.2	248.5	282.1
UNIVERSITIES AND COLLEGES	2,932.6	3,340.5	3,487.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	714.9	751.9	837.5
OTHER NONPROFIT INSTITUTIONS	593.0	646.6	657.1
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	66.9	88.5	90.3
STATE AND LOCAL GOVERNMENTS	128.8	141.4	151.6
FOREIGN	69.9	74.9	85.9
FIELDS OF SCIENCE:			
LIFE SCIENCES	3,430.1	3,896.5	3,993.0
PSYCHOLOGY	192.5	208.0	228.8
PHYSICAL SCIENCES	1,683.4	1,846.9	2,063.6
ENVIRONMENTAL SCIENCES	1,050.2	1,180.0	1,288.5
MATHEMATICS AND COMPUTER SCIENCES	235.6	275.6	315.5
ENGINEERING	2,445.9	2,659.0	2,792.0
SOCIAL SCIENCES	506.9	560.3	575.4
OTHER SCIENCES NEC	206.2	262.9	333.5
BASIC RESEARCH	3,699.1	4,205.1	4,537.6
PERFORMERS:			
FEDERAL INTRAMURAL(1)	1,046.6	1,156.5	1,202.5
INDUSTRIAL FIRMS	237.8	278.4	333.9
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	65.4	70.4	80.6
UNIVERSITIES AND COLLEGES	1,754.5	2,050.0	2,200.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	356.8	381.9	442.1
OTHER NONPROFIT INSTITUTIONS	190.6	211.1	219.2
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	5.8	7.4	9.2
STATE AND LOCAL GOVERNMENTS	17.1	19.4	18.5
FOREIGN	24.6	29.9	31.2
FIELDS OF SCIENCE:			
LIFE SCIENCES	1,572.4	1,841.0	1,904.0
PSYCHOLOGY	80.4	89.6	94.2
PHYSICAL SCIENCES	922.4	1,031.4	1,168.5
ENVIRONMENTAL SCIENCES	527.9	578.4	633.8
MATHEMATICS AND COMPUTER SCIENCES	92.2	105.8	121.3
ENGINEERING	344.2	386.0	422.9
SOCIAL SCIENCES	124.2	130.6	132.6
OTHER SCIENCES NEC	35.4	42.4	60.1
APPLIED RESEARCH	6,051.8	6,684.1	7,055.7
PERFORMERS:			
FEDERAL INTRAMURAL(1)	2,170.3	2,389.5	2,511.6
INDUSTRIAL FIRMS	1,555.0	1,772.5	1,953.4
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	169.8	178.1	201.4
UNIVERSITIES AND COLLEGES	1,178.0	1,290.5	1,287.1
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	358.1	369.9	395.4
OTHER NONPROFIT INSTITUTIONS	402.4	435.5	438.0
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	61.2	81.0	81.0
STATE AND LOCAL GOVERNMENTS	111.8	122.0	133.1
FOREIGN	45.3	45.0	54.7
FIELDS OF SCIENCE:			
LIFE SCIENCES	1,857.7	2,055.5	2,088.9
PSYCHOLOGY	112.1	118.5	134.5
PHYSICAL SCIENCES	761.0	815.5	895.1
ENVIRONMENTAL SCIENCES	522.4	601.6	654.7
MATHEMATICS AND COMPUTER SCIENCES	143.3	169.8	194.2
ENGINEERING	2,101.7	2,273.0	2,372.1
SOCIAL SCIENCES	382.7	429.7	442.8
OTHER SCIENCES NEC	170.8	220.5	273.3

CONTINUED ON NEXT PAGE

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1978	ESTIMATES 1979	ESTIMATES 1980
DEVELOPMENT	18,663.4	18,686.8	19,139.6
PERFORMERS:			
FEDERAL INTRAMURAL(1)	3,665.1	3,975.4	4,033.3
INDUSTRIAL FIRMS	10,046.8	11,600.0	11,979.7
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,007.3	1,006.2	986.8
UNIVERSITIES AND COLLEGES	467.0	523.8	560.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	610.8	659.6	662.2
OTHER NONPROFIT INSTITUTIONS	424.6	493.3	433.3
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	249.0	240.2	305.9
STATE AND LOCAL GOVERNMENTS	139.6	138.8	137.2
FOREIGN	53.2	49.4	41.2
R&D PLANT	1,295.7	1,431.8	1,495.4
PERFORMERS SUPPORTED:			
FEDERAL INTRAMURAL	518.0	441.9	512.6
INDUSTRIAL FIRMS	76.9	237.0	242.0
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	257.0	225.3	244.4
UNIVERSITIES AND COLLEGES	54.6	74.0	41.2
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	376.3	418.6	440.7
OTHER NONPROFIT INSTITUTIONS	4.4	5.5	5.8
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	8.3	9.2	8.5
STATE AND LOCAL GOVERNMENTS	-	.3	.2
FOREIGN	.1	-	-

(1) COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1978	ESTIMATES 1979	ESTIMATES 1980	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	27,710.0	31,007.7	32,228.3	25,705.0	29,005.1	31,072.3
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	645.9	693.7	691.9	572.4	647.0	640.3
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	32.7	35.9	39.8	32.4	35.8	39.7
FOREST SERVICE	108.3	116.1	105.4	86.7	111.3	106.9
SCIENCE & EDUCATION ADMINISTRATION	505.0	541.6	546.7	453.3	499.9	493.7
AGRICULTURAL RESEARCH	347.5	367.7	368.9	318.4	342.5	336.5
COOPERATIVE RESEARCH	157.4	173.9	177.8	134.9	157.4	157.1
DEPARTMENT OF COMMERCE, TOTAL	287.7	321.0	322.5	272.7	303.8	327.4
BUREAU OF THE CENSUS	3.4	3.8	4.6	3.3	3.8	4.3
ECONOMIC DEVELOPMENT ADMINISTRATION	38.5	40.1	31.0	25.1	29.3	26.1
MARITIME ADMINISTRATION	20.6	21.1	17.7	18.8	21.0	17.6
NATIONAL BUREAU OF STANDARDS	59.1	71.8	73.6	59.0	62.4	74.8
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	163.7	179.6	190.0	164.7	183.3	199.2
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	1.8	4.2	5.1	1.3	3.4	4.8
PATENT AND TRADEMARK OFFICE	.5	.5	.5	.5	.5	.5
DEPARTMENT OF DEFENSE, TOTAL	11,786.2	13,165.8	14,140.3	10,935.4	12,271.4	13,462.5
DEPARTMENT OF THE ARMY	2,556.5	2,783.1	3,083.9	2,464.3	2,629.1	2,942.4
MILITARY FUNCTIONS	2,530.0	2,757.6	3,034.5	2,437.8	2,603.5	2,913.0
MILITARY CONSTRUCTION	7.6	7.5	19.1	6.8	7.4	7.6
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	88.8	98.1	105.4	88.8	98.1	105.4
RDT&E APPROPRIATION	2,433.6	2,652.0	2,910.0	2,342.2	2,498.0	2,800.0
CIVIL FUNCTIONS	26.5	25.6	29.4	26.5	25.6	29.4
DEPARTMENT OF THE NAVY	4,046.7	4,689.4	4,610.2	3,919.4	4,328.5	4,546.5
MILITARY CONSTRUCTION	7.5	14.6	10.0	8.4	11.6	14.7
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	83.7	92.9	97.7	83.7	92.9	97.7
RDT&E APPROPRIATION	3,953.2	4,573.4	4,486.0	3,824.9	4,221.0	4,430.0
SPECIAL FOREIGN CURRENCY PROGRAM	2.2	8.5	10.5	2.4	3.0	4.1
DEPARTMENT OF THE AIR FORCE	4,422.4	4,739.1	5,345.9	3,969.9	4,574.9	5,131.1
MILITARY CONSTRUCTION	57.3	50.0	110.0	82.2	114.2	95.1
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	261.7	272.7	270.0	261.7	272.7	270.0
RDT&E APPROPRIATION	4,103.4	4,416.4	4,965.9	3,626.0	4,188.0	4,766.0
DEFENSE AGENCIES	724.5	924.3	1,079.3	555.1	713.5	808.7
MILITARY CONSTRUCTION	-	6.3	7.3	-	-	-
RDT&E APPROPRIATION	724.5	918.0	1,072.0	555.1	713.5	808.7
DEFENSE CIVIL PREPAREDNESS AGENCY	7.5	5.2	10.9	2.9	4.4	6.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	28.6	24.6	30.2	23.9	21.0	27.0
DEPARTMENT OF ENERGY, TOTAL	4,935.5	5,594.0	5,572.0	4,413.0	5,286.2	5,525.3
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	3,281.5	3,725.5	3,757.5	3,070.2	3,303.6	3,657.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	180.2	218.5	260.1	179.9	198.7	229.1
CENTER FOR DISEASE CONTROL	60.1	68.0	81.6	58.3	69.5	70.4
FOOD & DRUG ADMINISTRATION	65.0	65.4	65.0	56.0	55.8	56.6
HEALTH CARE FINANCING ADMINISTRATION	19.4	32.5	51.3	14.2	21.1	26.6
HEALTH RESOURCES ADMINISTRATION	5.5	1.5	.4	6.7	4.0	2.0
HEALTH SERVICES ADMINISTRATION	18.2	17.8	15.3	15.7	16.3	12.5
HUMAN DEVELOPMENT SERVICES	75.8	92.6	88.6	75.3	67.9	85.2
NATIONAL INSTITUTE OF EDUCATION	89.5	92.5	98.3	74.8	86.5	89.4
NATIONAL INSTITUTES OF HEALTH	2,654.2	3,016.8	2,992.4	2,507.1	2,683.9	2,965.2
OFFICE OF ASSISTANT SECRETARY FOR EDUCATION	1.3	1.3	1.5	1.1	.5	1.9
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	36.2	37.0	31.9	13.3	27.3	38.7
OFFICE OF EDUCATION	32.9	40.4	27.7	25.8	31.4	37.7
OFFICE OF THE SECRETARY	30.2	25.0	24.7	30.2	25.0	24.7
SOCIAL SECURITY ADMINISTRATION	12.9	16.2	18.8	11.9	15.7	17.6
DEPARTMENT OF HOUSING & URBAN DEVELOPMENT, TOTAL	69.7	67.8	64.1	59.3	63.2	64.9
DEPARTMENT OF THE INTERIOR, TOTAL	400.2	441.1	418.5	365.3	422.4	404.2
BUREAU OF LAND MANAGEMENT	1.2	1.3	1.2	1.2	1.3	1.2
BUREAU OF MINES	121.1	133.3	107.1	104.2	132.0	108.5
BUREAU OF RECLAMATION	11.2	11.6	11.7	10.9	12.3	11.7
GEOLOGICAL SURVEY	159.9	174.0	178.2	154.1	165.2	170.9
NATIONAL PARK SERVICE	7.7	8.1	8.5	7.7	8.1	8.5
OFFICE OF THE SECRETARY	1.7	3.5	2.4	2.1	3.5	2.4
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2.2	5.0	5.0	-	4.6	5.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	28.0	28.8	30.7	17.6	24.2	25.3
UNITED STATES FISH AND WILDLIFE SERVICE	67.2	75.5	73.6	67.5	71.1	70.7

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TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1978	ESTIMATES 1979	ESTIMATES 1980	1978	ESTIMATES 1979	ESTIMATES 1980
DEPARTMENT OF JUSTICE, TOTAL	60.9	45.3	37.3	33.5	47.2	43.2
BUREAU OF PRISONS	3.6	3.6	1.0	1.8	3.4	.9
DRUG ENFORCEMENT ADMINISTRATION	1.9	4.0	3.2	1.7	3.5	3.6
FEDERAL BUREAU OF INVESTIGATION	1.5	1.3	2.2	.9	2.7	2.0
IMMIGRATION AND NATURALIZATION SERVICE	.4	.6	.4	.3	.5	.5
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	51.6	34.2	28.4	27.1	35.5	34.4
OFFICE OF THE ATTORNEY GENERAL	1.6	1.7	2.0	1.6	1.6	1.9
DEPARTMENT OF LABOR, TOTAL	97.8	103.9	86.8	97.6	103.6	86.5
BUREAU OF LABOR STATISTICS	1.2	.9	.9	1.2	.9	.9
EMPLOYMENT STANDARDS ADMINISTRATION	3.7	5.8	7.1	3.6	5.7	6.9
EMPLOYMENT AND TRAINING ADMINISTRATION	86.6	86.6	68.4	86.6	86.6	68.4
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2.8	3.2	3.2	2.7	3.1	3.1
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	1.3	6.5	6.5	1.3	6.5	6.5
OFFICE OF THE SECRETARY	2.2	.8	.8	2.2	.8	.8
DEPARTMENT OF STATE, TOTAL	85.4	110.8	108.1	57.5	77.5	75.4
AGENCY FOR INTERNATIONAL DEVELOPMENT	82.6	107.8	105.9	54.6	74.5	73.2
DEPARTMENTAL FUNDS	2.8	3.0	2.2	2.8	3.0	2.2
DEPARTMENT OF TRANSPORTATION, TOTAL	422.4	441.9	420.2	377.3	402.4	390.2
COAST GUARD	24.4	21.3	21.8	20.3	17.0	20.0
FEDERAL AVIATION ADMINISTRATION	111.5	130.6	112.4	100.2	118.4	107.4
FEDERAL HIGHWAY ADMINISTRATION	52.1	57.7	65.3	52.9	55.8	60.3
FEDERAL RAILROAD ADMINISTRATION	65.7	62.3	56.5	62.4	55.4	52.9
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	66.5	70.3	68.4	68.5	65.7	63.9
OFFICE OF THE SECRETARY	31.7	19.2	16.0	19.7	22.1	18.5
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	.9	14.5	13.7	.8	9.4	8.8
URBAN MASS TRANSPORTATION ADMINISTRATION	69.6	66.0	66.1	52.5	58.6	58.4
DEPARTMENT OF THE TREASURY, TOTAL	9.9	11.5	12.9	9.9	11.5	12.9
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2.0	2.4	1.7	2.0	2.4	1.7
BUREAU OF ENGRAVING AND PRINTING	3.7	4.0	3.6	3.7	4.0	3.6
CUSTOMS SERVICE	1.8	2.1	4.1	1.8	2.1	4.1
INTERNAL REVENUE SERVICE	2.4	3.0	3.5	2.4	3.0	3.5
OTHER AGENCIES						
ACTION	1.6	1.6	1.6	1.6	1.6	1.6
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.7	1.7	1.7	1.5	1.8	1.7
APPALACHIAN REGIONAL COMMISSION	.5	.8	.8	.5	.8	.8
CIVIL AERONAUTICS BOARD	.7	.8	.7	.7	.8	.7
COMMUNITY SERVICES ADMINISTRATION	24.3	15.9	27.0	24.1	19.6	21.5
CONSUMER PRODUCT SAFETY COMMISSION	4.1	8.5	6.1	4.2	8.5	6.1
ENVIRONMENTAL PROTECTION AGENCY	389.3	402.8	437.1	312.5	376.2	403.6
FEDERAL COMMUNICATIONS COMMISSION	2.4	3.4	3.4	2.4	3.5	3.3
FEDERAL EMERGENCY MANAGEMENT AGENCY	7.0	8.0	6.8	6.8	7.8	6.5
FEDERAL HOME LOAN BANK BOARD	1.0	1.2	1.3	1.0	1.2	1.3
FEDERAL TRADE COMMISSION	1.4	1.5	1.3	1.4	1.5	1.3
GENERAL SERVICES ADMINISTRATION	2.7	.9	1.9	2.7	.9	1.9
INTERNATIONAL COMMUNICATION AGENCY	.1	.2	.1	.1	.1	.1
INTERSTATE COMMERCE COMMISSION	.3	.3	.3	.3	.3	.3
LIBRARY OF CONGRESS	4.9	5.1	5.3	4.7	5.3	5.3
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,037.8	4,538.8	4,697.6	3,983.1	4,404.1	4,595.0
NATIONAL SCIENCE FOUNDATION	788.5	856.5	933.6	738.6	808.8	878.0
NUCLEAR REGULATORY COMMISSION	140.8	160.3	185.6	131.7	150.6	173.6
OFFICE OF PERSONNEL MANAGEMENT	4.5	4.5	5.0	4.5	4.5	5.0
SMITHSONIAN INSTITUTION	35.1	38.2	40.1	34.7	38.5	40.2
TENNESSEE VALLEY AUTHORITY	53.4	90.9	95.6	53.4	90.9	95.6
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.6	3.6	4.2	3.6	3.6	4.2
UNITED STATES INTERNATIONAL TRADE COMMISSION	3.1	3.3	3.6	3.1	3.3	3.6
VETERANS ADMINISTRATION	118.1	135.7	135.6	123.9	131.0	130.8

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1978	ESTIMATES 1979	ESTIMATES 1980	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	26,414.3	29,576.0	30,732.9	24,597.2	27,663.0	29,604.8
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	621.3	666.9	663.7	553.8	619.7	603.8
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	32.7	35.9	39.8	32.4	35.8	39.7
FOREST SERVICE	105.6	112.6	105.4	84.6	107.8	106.9
SCIENCE & EDUCATION ADMINISTRATION	483.0	518.4	518.5	436.8	476.1	457.2
AGRICULTURAL RESEARCH	325.5	344.5	340.7	301.9	318.7	300.1
COOPERATIVE RESEARCH	157.4	173.9	177.8	134.9	157.4	157.1
DEPARTMENT OF COMMERCE, TOTAL	283.7	319.1	321.9	269.2	302.8	325.7
BUREAU OF THE CENSUS	3.4	3.8	4.6	3.3	3.8	4.3
ECONOMIC DEVELOPMENT ADMINISTRATION	38.5	40.1	31.0	25.1	29.3	26.1
MARITIME ADMINISTRATION	19.6	20.8	17.3	18.5	20.7	17.2
NATIONAL BUREAU OF STANDARDS	58.3	70.2	73.4	58.1	61.8	73.6
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	161.5	179.6	190.0	162.5	183.3	199.2
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	1.8	4.2	5.1	1.3	3.4	4.8
PATENT AND TRADEMARK OFFICE	.5	.5	.5	.5	.5	.5
DEPARTMENT OF DEFENSE, TOTAL	11,553.6	13,001.5	13,879.7	10,622.8	12,098.9	13,250.2
DEPARTMENT OF THE ARMY	2,548.9	2,775.6	3,044.8	2,457.5	2,621.7	2,934.8
MILITARY FUNCTIONS	2,522.4	2,750.1	3,019.4	2,431.0	2,596.1	2,905.4
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	88.8	98.1	105.4	88.8	98.1	105.4
RDT&E APPROPRIATION	2,433.6	2,652.0	2,910.0	2,342.2	2,498.0	2,800.0
CIVIL FUNCTIONS	26.5	25.6	29.4	26.5	25.6	29.4
DEPARTMENT OF THE NAVY	3,998.4	4,618.2	4,527.9	3,870.3	4,260.4	4,465.8
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	83.7	92.9	97.7	83.7	92.9	97.7
RDT&E APPROPRIATION	3,912.4	4,516.8	4,419.7	3,784.2	4,164.5	4,364.0
SPECIAL FOREIGN CURRENCY PROGRAM	2.2	8.5	10.5	2.4	3.0	4.1
DEPARTMENT OF THE AIR FORCE	4,262.3	4,679.1	5,220.9	3,719.8	4,450.7	5,021.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	261.7	272.7	270.0	261.7	272.7	270.0
RDT&E APPROPRIATION	4,000.7	4,406.4	4,950.9	3,458.1	4,178.0	4,751.0
DEFENSE AGENCIES	707.9	898.7	1,045.1	548.5	700.7	794.8
RDT&E APPROPRIATION	707.9	898.7	1,045.1	548.5	700.7	794.8
DEFENSE CIVIL PREPAREDNESS AGENCY	7.5	5.2	10.9	2.9	4.4	6.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	28.6	24.6	30.2	23.9	21.0	27.0
DEPARTMENT OF ENERGY, TOTAL	4,244.8	4,688.5	4,658.8	3,931.7	4,539.1	4,646.1
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	3,207.3	3,665.4	3,725.8	3,002.2	3,219.9	3,569.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	180.2	218.2	260.1	179.9	198.6	228.9
CENTER FOR DISEASE CONTROL	60.1	68.0	81.6	58.3	69.5	70.4
FOOD & DRUG ADMINISTRATION	64.1	62.0	64.3	54.7	52.7	54.6
HEALTH CARE FINANCING ADMINISTRATION	19.4	32.5	51.3	14.2	21.1	26.6
HEALTH RESOURCES ADMINISTRATION	5.5	1.5	.4	6.7	4.0	2.0
HEALTH SERVICES ADMINISTRATION	18.2	17.8	15.3	15.7	16.3	12.5
HUMAN DEVELOPMENT SERVICES	75.8	92.6	88.6	75.3	67.9	85.2
NATIONAL INSTITUTE OF EDUCATION	89.5	92.5	98.3	74.8	86.5	89.4
NATIONAL INSTITUTES OF HEALTH	2,580.9	2,960.6	2,981.4	2,440.3	2,603.4	2,879.5
OFFICE OF ASSISTANT SECRETARY FOR EDUCATION	1.3	1.3	1.5	1.1	.5	1.9
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	36.2	37.0	31.9	13.3	27.3	38.7
OFFICE OF EDUCATION	32.9	40.4	27.7	25.8	31.4	37.7
OFFICE OF THE SECRETARY	30.2	25.0	24.7	30.2	25.0	24.7
SOCIAL SECURITY ADMINISTRATION	12.9	16.2	18.8	11.9	15.7	17.6
DEPARTMENT OF HOUSING & URBAN DEVELOPMENT, TOTAL	69.7	67.8	64.1	59.3	63.2	64.9
DEPARTMENT OF THE INTERIOR, TOTAL	385.2	435.0	417.3	357.6	415.2	398.6
BUREAU OF LAND MANAGEMENT	1.2	1.3	1.2	1.2	1.3	1.2
BUREAU OF MINES	114.0	131.2	107.1	104.1	128.7	104.5
BUREAU OF RECLAMATION	11.2	11.6	11.7	10.9	12.3	11.7
GEOLOGICAL SURVEY	159.9	174.0	178.2	154.1	165.2	170.9
NATIONAL PARK SERVICE	7.7	8.1	8.5	7.7	8.1	8.5
OFFICE OF THE SECRETARY	1.7	3.5	2.4	2.1	3.5	2.4
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2.2	5.0	5.0	-	4.6	5.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	27.4	28.1	30.0	17.0	23.5	24.6
UNITED STATES FISH AND WILDLIFE SERVICE	59.9	72.2	73.1	60.5	67.9	69.8

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TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1978	ESTIMATES 1979	ESTIMATES 1980	1978	ESTIMATES 1979	ESTIMATES 1980
DEPARTMENT OF JUSTICE, TOTAL	60.9	45.3	37.3	33.5	47.2	43.2
BUREAU OF PRISONS	3.6	3.6	1.0	1.8	3.4	.9
DRUG ENFORCEMENT ADMINISTRATION	1.9	4.0	3.2	1.7	3.5	3.6
FEDERAL BUREAU OF INVESTIGATION	1.8	1.3	2.2	.9	2.7	2.0
IMMIGRATION AND NATURALIZATION SERVICE	.4	.6	.4	.3	.5	.5
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	51.6	34.2	28.4	27.1	35.5	34.4
OFFICE OF THE ATTORNEY GENERAL	1.6	1.7	2.0	1.6	1.6	1.9
DEPARTMENT OF LABOR, TOTAL	97.8	103.9	86.8	97.6	103.6	86.5
BUREAU OF LABOR STATISTICS	1.2	.9	.9	1.2	.9	.9
EMPLOYMENT STANDARDS ADMINISTRATION	3.7	5.8	7.1	3.6	5.7	6.9
EMPLOYMENT AND TRAINING ADMINISTRATION	86.6	86.6	68.4	86.6	86.6	68.4
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2.8	3.2	3.2	2.7	3.1	3.1
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	1.3	6.5	6.5	1.3	6.5	6.5
OFFICE OF THE SECRETARY	2.2	.8	.8	2.2	.8	.8
DEPARTMENT OF STATE, TOTAL	85.2	105.6	106.6	57.4	73.9	74.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	82.4	102.7	104.4	54.5	71.0	72.2
DEPARTMENTAL FUNDS	2.8	3.0	2.2	2.8	3.0	2.2
DEPARTMENT OF TRANSPORTATION, TOTAL	408.3	418.2	395.1	384.1	380.5	371.5
COAST GUARD	23.7	20.6	21.0	19.6	16.3	19.2
FEDERAL AVIATION ADMINISTRATION	110.5	121.6	107.4	99.2	109.8	102.6
FEDERAL HIGHWAY ADMINISTRATION	51.7	56.4	58.3	52.5	54.5	57.9
FEDERAL RAILROAD ADMINISTRATION	53.9	49.8	44.4	51.5	44.3	42.4
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	66.3	70.1	68.2	68.3	65.5	63.7
OFFICE OF THE SECRETARY	31.7	19.2	16.0	19.7	22.1	18.5
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	.9	14.5	13.7	.8	9.4	8.8
URBAN MASS TRANSPORTATION ADMINISTRATION	69.6	66.0	66.1	52.5	58.6	58.4
DEPARTMENT OF THE TREASURY, TOTAL	9.9	11.4	12.9	9.9	11.4	12.9
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2.0	2.4	1.7	2.0	2.4	1.7
BUREAU OF ENGRAVING AND PRINTING	3.7	4.0	3.6	3.7	4.0	3.6
CUSTOMS SERVICE	1.8	2.1	4.1	1.8	2.1	4.1
INTERNAL REVENUE SERVICE	2.4	3.0	3.5	2.4	3.0	3.5
OTHER AGENCIES						
ACTION	1.6	1.6	1.6	1.6	1.6	1.6
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.7	1.7	1.7	1.5	1.8	1.7
APPALACHIAN REGIONAL COMMISSION	.5	.8	.8	.5	.8	.8
CIVIL AERONAUTICS BOARD	.7	.8	.7	.7	.8	.7
COMMUNITY SERVICES ADMINISTRATION	24.3	15.9	27.0	24.1	19.6	21.5
CONSUMER PRODUCT SAFETY COMMISSION	3.8	8.5	6.1	3.9	8.5	6.1
ENVIRONMENTAL PROTECTION AGENCY	384.6	400.4	435.6	310.3	373.7	400.9
FEDERAL COMMUNICATIONS COMMISSION	2.4	3.4	3.4	2.4	3.5	3.3
FEDERAL EMERGENCY MANAGEMENT AGENCY	7.0	8.0	6.8	6.8	7.8	6.5
FEDERAL HOME LOAN BANK BOARD	1.0	1.2	1.3	1.0	1.2	1.3
FEDERAL TRADE COMMISSION	1.4	1.5	1.3	1.4	1.5	1.3
GENERAL SERVICES ADMINISTRATION	2.7	.9	1.9	2.7	.9	1.9
INTERNATIONAL COMMUNICATION AGENCY	.1	.2	.1	.1	.1	.1
INTERSTATE COMMERCE COMMISSION	.3	.3	.3	.3	.3	.3
LIBRARY OF CONGRESS	4.9	5.1	5.3	4.7	5.3	5.3
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,875.4	4,392.3	4,540.0	3,858.9	4,250.6	4,439.8
NATIONAL SCIENCE FOUNDATION	748.8	818.9	910.1	700.5	772.7	856.3
NUCLEAR REGULATORY COMMISSION	133.9	151.6	176.3	125.4	142.1	165.4
OFFICE OF PERSONNEL MANAGEMENT	4.5	4.5	5.0	4.5	4.5	5.0
SMITHSONIAN INSTITUTION	34.9	37.3	39.3	34.6	37.9	39.3
TENNESSEE VALLEY AUTHORITY	31.5	58.2	64.0	31.5	58.2	64.0
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.6	3.6	4.2	3.6	3.6	4.2
UNITED STATES INTERNATIONAL TRADE COMMISSION	3.1	3.3	3.6	3.1	3.3	3.6
VETERANS ADMINISTRATION	114.0	127.3	126.5	114.3	127.3	126.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	26,414,263	3,699,124	6,051,761	16,663,378
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	621,282	242,704	351,780	26,798
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	32,700	3,924	28,776	-
FOREST SERVICE	105,617	30,840	69,813	4,964
SCIENCE & EDUCATION ADMINISTRATION	482,965	207,940	253,191	21,834
AGRICULTURAL RESEARCH	325,541	142,379	161,328	21,834
COOPERATIVE RESEARCH	157,424	65,561	91,863	-
DEPARTMENT OF COMMERCE, TOTAL	283,665	23,861	168,914	90,890
BUREAU OF THE CENSUS	3,441	507	1,827	1,107
ECONOMIC DEVELOPMENT ADMINISTRATION	38,544	2,690	3,222	32,632
MARITIME ADMINISTRATION	19,600	2,700	4,300	12,600
NATIONAL BUREAU OF STANDARDS	58,306	5,909	42,615	9,782
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	161,450	12,055	115,865	33,530
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	1,808	-	1,085	723
PATENT AND TRADEMARK OFFICE	516	-	-	516
DEPARTMENT OF DEFENSE, TOTAL	11,553,638	319,079	1,622,134	9,612,425
DEPARTMENT OF THE ARMY	2,548,927	54,530	359,770	2,134,627
DEPARTMENT OF THE NAVY	3,998,416	130,300	271,700	3,596,416
DEPARTMENT OF THE AIR FORCE	4,262,349	95,100	590,627	3,576,622
DEFENSE AGENCIES	707,886	39,149	392,537	276,200
DEFENSE CIVIL PREPAREDNESS AGENCY	7,500	-	7,500	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	28,560	-	-	28,560
DEPARTMENT OF ENERGY, TOTAL	4,244,827	440,534	661,709	3,142,584
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	3,207,254	1,292,339	1,448,378	466,537
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	180,160	79,917	98,834	1,409
CENTER FOR DISEASE CONTROL	60,084	-	60,084	-
FOOD & DRUG ADMINISTRATION	64,134	-	64,134	-
HEALTH CARE FINANCING ADMINISTRATION	19,400	-	19,400	-
HEALTH RESOURCES ADMINISTRATION	5,491	-	5,000	491
HEALTH SERVICES ADMINISTRATION	18,219	636	9,980	7,603
HUMAN DEVELOPMENT SERVICES	75,841	2,223	42,938	30,680
NATIONAL INSTITUTE OF EDUCATION	89,541	18,276	16,340	54,925
NATIONAL INSTITUTES OF HEALTH	2,580,862	1,181,094	1,051,502	348,266
OFFICE OF ASSISTANT SECRETARY FOR EDUCATION	1,316	-	1,316	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	36,190	5,120	27,511	3,559
OFFICE OF EDUCATION	32,915	-	13,311	19,604
OFFICE OF THE SECRETARY	30,201	5,073	25,128	-
SOCIAL SECURITY ADMINISTRATION	12,900	-	12,900	-
DEPARTMENT OF HOUSING & URBAN DEVELOPMENT, TOTAL	69,723	-	30,535	39,188
DEPARTMENT OF THE INTERIOR, TOTAL	385,235	149,672	164,081	75,482
BUREAU OF LAND MANAGEMENT	1,228	-	1,038	190
BUREAU OF MINES	113,968	8,600	48,400	56,968
BUREAU OF RECLAMATION	11,236	150	10,446	640
GEOLOGICAL SURVEY	159,917	126,084	33,833	-
NATIONAL PARK SERVICE	7,700	-	7,700	-
OFFICE OF THE SECRETARY	1,738	1,738	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2,194	-	2,194	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	27,384	4,600	10,800	11,984
UNITED STATES FISH AND WILDLIFE SERVICE	59,870	4,500	49,670	5,700
DEPARTMENT OF JUSTICE, TOTAL	60,919	14,700	31,022	15,197
BUREAU OF PRISONS	3,585	-	679	2,906
DRUG ENFORCEMENT ADMINISTRATION	1,900	-	500	1,400
FEDERAL BUREAU OF INVESTIGATION	1,825	-	-	1,825
IMMIGRATION AND NATURALIZATION SERVICE	378	-	189	189
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	51,600	14,700	28,600	8,300
OFFICE OF THE ATTORNEY GENERAL	1,631	-	1,054	577
DEPARTMENT OF LABOR, TOTAL	97,835	3,678	22,033	72,124
BUREAU OF LABOR STATISTICS	1,238	-	782	456
EMPLOYMENT STANDARDS ADMINISTRATION	3,737	-	3,737	-
EMPLOYMENT AND TRAINING ADMINISTRATION	86,599	3,528	11,403	71,668
LABOR-MANAGEMENT SERVICES ADMINISTRATION	2,761	150	2,611	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	1,300	-	1,300	-
OFFICE OF THE SECRETARY	2,200	-	2,200	-
DEPARTMENT OF STATE, TOTAL	85,208	-	49,126	36,082
AGENCY FOR INTERNATIONAL DEVELOPMENT	82,360	-	46,648	35,712
DEPARTMENTAL FUNDS	2,848	-	2,478	370
DEPARTMENT OF TRANSPORTATION, TOTAL	408,250	-	66,500	341,750
COAST GUARD	23,700	-	2,300	21,400
FEDERAL AVIATION ADMINISTRATION	110,500	-	6,800	103,700
FEDERAL HIGHWAY ADMINISTRATION	51,700	-	4,900	46,800
FEDERAL RAILROAD ADMINISTRATION	53,900	-	9,200	44,700
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	66,300	-	38,000	28,300
OFFICE OF THE SECRETARY	31,650	-	4,100	27,550
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	900	-	100	800
URBAN MASS TRANSPORTATION ADMINISTRATION	69,600	-	1,100	68,500

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TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF THE TREASURY, TOTAL	9,878	-	4,114	5,764
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1,974	-	414	1,560
BUREAU OF ENGRAVING AND PRINTING	3,700	-	1,900	1,800
CUSTOMS SERVICE	1,804	-	-	1,804
INTERNAL REVENUE SERVICE	2,400	-	1,800	600
OTHER AGENCIES				
ACTION	1,633	-	231	1,402
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,685	-	1,685	-
APPALACHIAN REGIONAL COMMISSION	460	-	320	140
CIVIL AERONAUTICS BOARD	711	-	711	-
COMMUNITY SERVICES ADMINISTRATION	24,300	-	1,961	22,339
CONSUMER PRODUCT SAFETY COMMISSION	3,817	-	917	2,900
ENVIRONMENTAL PROTECTION AGENCY	384,636	6,010	246,660	131,966
FEDERAL COMMUNICATIONS COMMISSION	2,400	-	2,400	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	6,958	2,847	1,945	2,166
FEDERAL HOME LOAN BANK BOARD	977	-	977	-
FEDERAL TRADE COMMISSION	1,356	452	904	-
GENERAL SERVICES ADMINISTRATION	2,666	1,781	369	516
INTERNATIONAL COMMUNICATION AGENCY	127	-	115	12
INTERSTATE COMMERCE COMMISSION	250	-	250	-
LIBRARY OF CONGRESS	4,900	130	370	4,400
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,875,414	479,729	865,438	2,530,247
NATIONAL SCIENCE FOUNDATION	748,775	678,040	65,462	5,273
NUCLEAR REGULATORY COMMISSION	133,891	-	133,891	-
OFFICE OF PERSONNEL MANAGEMENT	4,474	-	987	3,487
SMITHSONIAN INSTITUTION	34,896	34,896	-	-
TENNESSEE VALLEY AUTHORITY	31,467	3,781	9,719	17,967
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,646	-	2,495	1,151
UNITED STATES INTERNATIONAL TRADE COMMISSION	3,119	-	3,119	-
VETERANS ADMINISTRATION	113,991	8,891	90,509	14,591

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	29,575,953	4,205,133	6,684,055	18,686,765
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	666,922	251,872	385,641	29,409
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	35,900	4,308	31,592	-
FOREST SERVICE	112,603	32,880	74,430	5,293
SCIENCE & EDUCATION ADMINISTRATION	518,419	214,684	279,619	24,116
AGRICULTURAL RESEARCH	344,500	143,268	177,116	24,116
COOPERATIVE RESEARCH	173,919	71,416	102,503	-
DEPARTMENT OF COMMERCE, TOTAL	319,125	26,626	189,573	102,926
BUREAU OF THE CENSUS	3,835	706	2,018	1,111
ECONOMIC DEVELOPMENT ADMINISTRATION	40,080	1,900	3,600	34,580
MARITIME ADMINISTRATION	20,800	2,600	4,600	13,600
NATIONAL BUREAU OF STANDARDS	70,187	8,583	45,074	16,528
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	179,551	12,835	131,789	34,927
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	4,154	-	2,492	1,662
PATENT AND TRADEMARK OFFICE	518	-	-	518
DEPARTMENT OF DEFENSE, TOTAL	13,001,485	378,429	1,774,302	10,848,754
DEPARTMENT OF THE ARMY	2,775,647	[illegible],882	375,646	2,340,119
DEPARTMENT OF THE NAVY	4,618,232	151,800	293,300	4,173,132
DEPARTMENT OF THE AIR FORCE	4,679,120	104,900	636,030	3,938,190
DEFENSE AGENCIES	898,686	61,847	464,126	372,713
DEFENSE CIVIL PREPAREDNESS AGENCY	5,200	-	5,200	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	24,600	-	-	24,600
DEPARTMENT OF ENERGY, TOTAL	4,688,453	471,645	711,543	3,505,265
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	3,665,427	1,561,380	1,580,144	523,903
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	218,196	99,867	121,025	1,304
CENTER FOR DISEASE CONTROL	67,978	-	67,978	-
FOOD & DRUG ADMINISTRATION	61,967	-	61,967	-
HEALTH CARE FINANCING ADMINISTRATION	32,500	-	32,500	-
HEALTH RESOURCES ADMINISTRATION	1,450	-	1,100	350
HEALTH SERVICES ADMINISTRATION	17,791	1,100	9,087	7,604
HUMAN DEVELOPMENT SERVICES	92,569	2,305	50,163	40,101
NATIONAL INSTITUTE OF EDUCATION	92,460	21,700	20,800	49,960
NATIONAL INSTITUTES OF HEALTH	2,960,602	1,428,600	1,133,202	398,800
OFFICE OF ASSISTANT SECRETARY FOR EDUCATION	1,288	-	1,288	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	36,983	5,608	27,564	3,811
OFFICE OF EDUCATION	40,443	-	18,470	21,973
OFFICE OF THE SECRETARY	25,000	6,200	18,800	-
SOCIAL SECURITY ADMINISTRATION	16,200	-	16,200	-
DEPARTMENT OF HOUSING & URBAN DEVELOPMENT, TOTAL	67,751	-	31,821	35,930
DEPARTMENT OF THE INTERIOR, TOTAL	434,987	165,404	209,279	60,304
BUREAU OF LAND MANAGEMENT	1,335	-	1,121	214
BUREAU OF MINES	131,191	13,800	76,600	40,791
BUREAU OF RECLAMATION	11,572	123	10,926	523
GEOLOGICAL SURVEY	174,031	137,964	36,067	-
NATIONAL PARK SERVICE	8,085	-	8,085	-
OFFICE OF THE SECRETARY	3,517	3,517	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	-	4,980	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	28,076	4,600	11,500	11,976
UNITED STATES FISH AND WILDLIFE SERVICE	72,200	5,400	60,000	6,800
DEPARTMENT OF JUSTICE, TOTAL	45,338	9,700	23,287	12,351
BUREAU OF PRISONS	3,600	-	1,461	2,139
DRUG ENFORCEMENT ADMINISTRATION	4,000	-	1,200	2,800
FEDERAL BUREAU OF INVESTIGATION	1,275	-	-	1,275
IMMIGRATION AND NATURALIZATION SERVICE	563	-	281	282
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	34,200	9,700	18,900	5,600
OFFICE OF THE ATTORNEY GENERAL	1,700	-	1,445	255
DEPARTMENT OF LABOR, TOTAL	103,866	3,932	28,269	71,665
BUREAU OF LABOR STATISTICS	912	-	912	-
EMPLOYMENT STANDARDS ADMINISTRATION	9,813	-	9,813	-
EMPLOYMENT AND TRAINING ADMINISTRATION	86,612	3,532	11,415	71,665
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,183	400	2,783	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6,546	-	6,546	-
OFFICE OF THE SECRETARY	800	-	800	-
DEPARTMENT OF STATE, TOTAL	105,625	-	78,879	26,746
AGENCY FOR INTERNATIONAL DEVELOPMENT	102,671	-	76,325	26,346
DEPARTMENTAL FUNDS	2,954	-	2,554	400
DEPARTMENT OF TRANSPORTATION, TOTAL	418,220	-	77,300	340,920
COAST GUARD	20,600	-	6,200	14,400
FEDERAL AVIATION ADMINISTRATION	121,600	-	9,000	112,600
FEDERAL HIGHWAY ADMINISTRATION	56,400	-	5,600	50,800
FEDERAL RAILROAD ADMINISTRATION	49,800	-	8,500	41,300
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	70,100	-	38,600	31,500
OFFICE OF THE SECRETARY	19,220	-	3,600	15,620
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14,500	-	4,800	9,700
URBAN MASS TRANSPORTATION ADMINISTRATION	66,000	-	1,000	65,000

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TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF THE TREASURY, TOTAL	11,414	-	4,794	6,620
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2,352	-	494	1,858
BUREAU OF ENGRAVING AND PRINTING	4,000	-	2,100	1,900
CUSTOMS SERVICE	2,062	-	-	2,062
INTERNAL REVENUE SERVICE	3,000	-	2,200	800
OTHER AGENCIES				
ACTION	1,584	-	-	1,584
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,703	-	1,703	-
APPALACHIAN REGIONAL COMMISSION	800	-	600	200
CIVIL AERONAUTICS BOARD	830	-	830	-
COMMUNITY SERVICES ADMINISTRATION	15,900	-	1,000	14,900
CONSUMER PRODUCT SAFETY COMMISSION	8,500	-	3,800	4,700
ENVIRONMENTAL PROTECTION AGENCY	400,352	9,424	257,830	133,098
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	3,400	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	7,979	3,225	1,763	2,991
FEDERAL HOME LOAN BANK BOARD	1,210	-	1,210	-
FEDERAL TRADE COMMISSION	1,921	445	1,476	-
GENERAL SERVICES ADMINISTRATION	926	17	722	187
INTERNATIONAL COMMUNICATION AGENCY	172	-	164	8
INTERSTATE COMMERCE COMMISSION	265	-	265	-
LIBRARY OF CONGRESS	5,100	130	370	4,600
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,392,300	531,192	963,910	2,897,198
NATIONAL SCIENCE FOUNDATION	818,919	741,078	69,991	7,850
NUCLEAR REGULATORY COMMISSION	151,580	-	151,580	-
OFFICE OF PERSONNEL MANAGEMENT	4,548	-	1,024	3,524
SMITHSONIAN INSTITUTION	37,292	37,292	-	-
TENNESSEE VALLEY AUTHORITY	58,214	4,048	19,391	34,775
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,646	-	3,076	570
UNITED STATES INTERNATIONAL TRADE COMMISSION	3,285	-	3,285	-
VETERANS ADMINISTRATION	127,314	9,294	102,233	15,787

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	30,732,944	4,937,606	7,055,703	19,139,635
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	663,661	267,551	368,200	27,910
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	39,800	4,776	35,024	-
FOREST SERVICE	105,364	30,765	69,645	4,954
SCIENCE & EDUCATION ADMINISTRATION	518,497	232,010	263,531	22,956
AGRICULTURAL RESEARCH	340,636	149,526	168,174	22,956
COOPERATIVE RESEARCH	177,841	82,484	95,357	-
DEPARTMENT OF COMMERCE, TOTAL	321,898	28,842	199,391	93,705
BUREAU OF THE CENSUS	4,625	917	2,241	1,467
ECONOMIC DEVELOPMENT ADMINISTRATION	31,000	900	1,600	28,500
MARITIME ADMINISTRATION	17,300	2,400	3,700	11,200
NATIONAL BUREAU OF STANDARDS	73,401	10,675	45,755	15,971
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	189,951	13,950	141,995	34,006
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	5,100	-	3,060	2,040
PATENT AND TRADEMARK OFFICE	521	-	-	521
DEPARTMENT OF DEFENSE, TOTAL	13,879,748	436,494	1,973,651	11,467,203
DEPARTMENT OF THE ARMY	3,044,831	73,610	429,145	2,542,076
DEPARTMENT OF THE NAVY	4,527,868	152,800	295,300	4,079,768
DEPARTMENT OF THE AIR FORCE	5,220,929	122,184	683,416	4,415,329
DEFENSE AGENCIES	1,045,070	88,300	556,890	399,880
DEFENSE CIVIL PREPAREDNESS AGENCY	10,900	-	10,900	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	30,150	-	-	30,150
DEPARTMENT OF ENERGY, TOTAL	4,658,810	548,442	719,505	3,390,863
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	3,725,834	1,581,476	1,635,933	508,425
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	260,073	110,294	148,117	1,662
CENTER FOR DISEASE CONTROL	81,572	-	81,572	-
FOOD & DRUG ADMINISTRATION	64,287	-	64,287	-
HEALTH CARE FINANCING ADMINISTRATION	51,300	-	51,300	-
HEALTH RESOURCES ADMINISTRATION	350	-	-	350
HEALTH SERVICES ADMINISTRATION	15,271	1,000	6,917	7,354
HUMAN DEVELOPMENT SERVICES	88,623	2,017	47,423	39,183
NATIONAL INSTITUTE OF EDUCATION	98,285	23,400	22,100	52,785
NATIONAL INSTITUTES OF HEALTH	2,961,440	1,434,500	1,132,440	394,500
OFFICE OF ASSISTANT SECRETARY FOR EDUCATION	1,486	-	1,486	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	31,885	4,665	24,060	3,160
OFFICE OF EDUCATION	27,747	-	18,316	9,431
OFFICE OF THE SECRETARY	24,715	5,600	19,115	-
SOCIAL SECURITY ADMINISTRATION	18,800	-	18,800	-
DEPARTMENT OF HOUSING & URBAN DEVELOPMENT, TOTAL	64,109	-	27,777	36,332
DEPARTMENT OF THE INTERIOR, TOTAL	417,257	161,359	208,031	47,867
BUREAU OF LAND MANAGEMENT	1,199	-	1,007	192
BUREAU OF MINES	107,126	11,300	67,200	28,626
BUREAU OF RECLAMATION	11,700	194	10,796	710
GEOLOGICAL SURVEY	178,180	137,341	40,839	-
NATIONAL PARK SERVICE	8,489	-	8,489	-
OFFICE OF THE SECRETARY	2,424	2,424	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	-	4,980	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	30,039	6,600	14,000	11,439
UNITED STATES FISH AND WILDLIFE SERVICE	73,120	5,500	60,720	6,900
DEPARTMENT OF JUSTICE, TOTAL	37,266	8,700	17,338	11,228
BUREAU OF PRISONS	1,037	-	-	1,037
DRUG ENFORCEMENT ADMINISTRATION	3,200	-	1,000	2,200
FEDERAL BUREAU OF INVESTIGATION	2,215	-	-	2,215
IMMIGRATION AND NATURALIZATION SERVICE	400	-	200	200
LAW ENFORCEMENT ASSISTANCE ADMINISTRATION	28,404	8,700	14,428	5,276
OFFICE OF THE ATTORNEY GENERAL	2,010	-	1,710	300
DEPARTMENT OF LABOR, TOTAL	86,797	3,791	28,979	54,027
BUREAU OF LABOR STATISTICS	864	-	864	-
EMPLOYMENT STANDARDS ADMINISTRATION	7,056	-	7,056	-
EMPLOYMENT AND TRAINING ADMINISTRATION	68,379	3,391	10,961	54,027
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,152	400	2,752	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6,546	-	6,546	-
OFFICE OF THE SECRETARY	800	-	800	-
DEPARTMENT OF STATE, TOTAL	106,570	-	74,216	32,354
AGENCY FOR INTERNATIONAL DEVELOPMENT	104,395	-	72,441	31,954
DEPARTMENTAL FUNDS	2,175	-	1,775	400
DEPARTMENT OF TRANSPORTATION, TOTAL	395,100	-	67,300	327,800
COAST GUARD	21,000	-	7,100	13,900
FEDERAL AVIATION ADMINISTRATION	107,400	-	7,800	99,600
FEDERAL HIGHWAY ADMINISTRATION	58,300	-	5,400	52,900
FEDERAL RAILROAD ADMINISTRATION	44,400	-	7,500	36,900
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	68,200	-	31,600	36,600
OFFICE OF THE SECRETARY	16,000	-	2,500	13,500
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	13,700	-	4,400	9,300
URBAN MASS TRANSPORTATION ADMINISTRATION	66,100	-	1,000	65,100

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TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF THE TREASURY, TOTAL	12,879	-	4,956	7,923
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1,729	-	346	1,383
BUREAU OF ENGRAVING AND PRINTING	3,600	-	1,900	1,700
CUSTOMS SERVICE	4,050	-	110	3,940
INTERNAL REVENUE SERVICE	3,500	-	2,600	900
OTHER AGENCIES				
ACTION	1,620	-	-	1,620
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,683	-	1,683	-
APPALACHIAN REGIONAL COMMISSION	800	-	600	200
CIVIL AERONAUTICS BOARD	730	-	730	-
COMMUNITY SERVICES ADMINISTRATION	27,000	-	2,000	25,000
CONSUMER PRODUCT SAFETY COMMISSION	6,100	-	2,100	4,000
ENVIRONMENTAL PROTECTION AGENCY	435,641	16,883	297,420	121,338
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	3,400	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	6,810	2,150	1,744	2,916
FEDERAL HOME LOAN BANK BOARD	1,325	-	1,325	-
FEDERAL TRADE COMMISSION	1,312	337	975	-
GENERAL SERVICES ADMINISTRATION	1,864	68	1,420	376
INTERNATIONAL COMMUNICATION AGENCY	140	-	140	-
INTERSTATE COMMERCE COMMISSION	300	-	300	-
LIBRARY OF CONGRESS	5,300	130	370	4,800
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,539,958	599,176	1,037,816	2,902,966
NATIONAL SCIENCE FOUNDATION	910,085	828,315	72,770	9,000
NUCLEAR REGULATORY COMMISSION	176,270	-	176,270	-
OFFICE OF PERSONNEL MANAGEMENT	5,008	-	1,254	3,754
SMITHSONIAN INSTITUTION	39,530	39,330	-	-
TENNESSEE VALLEY AUTHORITY	63,971	4,291	20,209	39,471
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	4,175	-	2,575	1,600
UNITED STATES INTERNATIONAL TRADE COMMISSION	3,648	-	3,648	-
VETERANS ADMINISTRATION	126,565	9,871	99,717	16,957

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	26,414.3	6,882.0	11,839.5	1,242.5	3,399.5	1,325.6	1,017.6	315.9	268.4	123.2
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	621.3	417.8	7.1	-	186.4	-	.3	-	1.0	8.7
ECON, STAT & COOPERATIVES SERVICE	32.7	30.5	-	-	2.2	-	-	-	-	-
FOREST SERVICE	105.6	94.6	.8	-	10.0	-	*	-	.1	-
SCIENCE & EDUCATION ADMINISTRATION	483.0	292.6	6.3	-	174.2	-	.2	-	.9	8.7
AGRICULTURAL RESEARCH	325.5	287.5	6.3	-	22.5	-	.2	-	.3	8.7
COOPERATIVE RESEARCH	157.4	5.2	-	-	151.7	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	283.7	178.3	32.2	-	35.7	.2	19.9	.2	17.0	.3
BUREAU OF THE CENSUS	3.4	3.3	-	-	.1	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	38.5	1.6	1.3	-	7.5	-	17.4	-	10.8	-
MARITIME ADMINISTRATION	19.6	1.8	16.7	-	.5	-	.4	.2	-	-
NATIONAL BUREAU OF STANDARDS	58.3	54.5	2.1	-	.6	-	.8	-	-	.2
NAT'L OCEANIC & ATMOSPHERIC ADMIN	161.5	114.8	12.0	-	27.0	.2	1.2	-	6.2	.1
NAT'L TELECOMM & INFORMATION ADMIN	1.8	1.8	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.5	.5	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,553.6	3,284.8	7,346.0	99.0	405.2	85.0	123.2	186.5	1.2	22.6
DEPARTMENT OF THE ARMY	2,548.9	926.1	1,518.0	.1	52.3	16.8	24.1	5.1	.3	6.0
DEPARTMENT OF THE NAVY	3,998.4	1,131.2	2,507.1	97.6	179.2	18.6	51.1	5.6	-	8.0
DEPARTMENT OF THE AIR FORCE	4,262.3	997.4	2,900.6	-	144.1	31.6	26.1	154.5	-	8.1
DEFENSE AGENCIES	707.9	204.8	414.6	1.3	29.4	18.1	20.4	18.9	-	.5
DEFENSE CIVIL PREPAREDNESS AGENCY	7.5	1.7	2.9	.1	.2	-	1.5	.3	.8	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	28.6	23.6	2.7	-	-	-	-	2.2	-	-
DEPARTMENT OF ENERGY, TOTAL	4,244.8	317.7	1,415.7	1,033.7	240.1	1,084.8	48.1	102.5	10.9	11.3
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,207.3	685.9	143.3	31.5	1,702.3	8.3	501.1	1.9	94.3	38.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	180.2	51.4	3.9	-	94.5	-	23.7	.3	4.6	1.8
CENTER FOR DISEASE CONTROL	60.1	42.6	4.3	-	6.2	-	3.7	-	.4	2.8
FOOD & DRUG ADMINISTRATION	64.1	41.1	6.1	-	11.2	-	5.0	-	.2	.5
HEALTH CARE FINANCING ADMIN	19.4	5.2	6.8	-	1.7	-	1.0	-	4.7	-
HEALTH RESOURCES ADMINISTRATION	5.5	.2	-	-	4.8	-	-	-	-	.5
HEALTH SERVICES ADMINISTRATION	18.2	4.8	2.4	-	5.5	-	2.8	-	1.1	1.6
HUMAN DEVELOPMENT SERVICES	75.8	5.3	4.8	-	32.1	-	24.0	-	9.3	.3
NATIONAL INSTITUTE OF EDUCATION	89.5	15.3	7.5	-	26.4	-	32.5	-	7.6	.1
NATIONAL INSTITUTES OF HEALTH	2,580.9	494.0	98.9	31.5	1,493.0	8.3	383.6	1.6	41.5	28.5
OFFICE OF ASST'T SECY FOR EDUC	1.3	.1	-	-	-	-	1.2	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	36.2	11.3	1.1	-	10.8	-	9.6	-	1.0	2.4
OFFICE OF EDUCATION	32.9	1.8	4.2	-	12.2	-	6.0	-	8.5	.2
OFFICE OF THE SECRETARY	30.2	2.7	2.7	-	2.7	-	7.4	-	14.7	-
SOCIAL SECURITY ADMINISTRATION	12.9	9.8	.5	-	1.1	-	.6	-	.8	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	69.7	24.9	17.9	-	5.7	-	18.7	-	2.5	-
DEPARTMENT OF THE INTERIOR, TOTAL	385.2	242.0	69.6	.2	36.0	.4	3.6	-	33.2	.3
BUREAU OF LAND MANAGEMENT	1.2	.6	-	-	.7	-	-	-	-	-
BUREAU OF MINES	114.0	52.9	50.9	-	7.3	.2	2.5	-	*	.2
BUREAU OF RECLAMATION	11.2	6.3	1.6	-	2.2	-	-	-	1.2	-
GEOLOGICAL SURVEY	159.9	149.7	1.0	-	9.2	-	-	-	-	-
NATIONAL PARK SERVICE	7.7	3.5	.1	-	3.8	-	.2	-	.1	-
OFFICE OF THE SECRETARY	1.7	1.0	.4	-	.3	-	-	-	-	*
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2.2	.2	.5	.2	.2	.2	.9	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	27.4	1.5	15.0	-	10.7	-	-	-	.2	-
US FISH & WILDLIFE SERVICE	59.9	26.3	.3	-	1.7	-	-	-	31.7	-
DEPARTMENT OF JUSTICE, TOTAL	60.9	6.0	6.7	-	8.8	-	35.2	.5	3.8	-
BUREAU OF PRISONS	3.6	1.9	.1	-	.5	-	-	-	1.2	-
DRUG ENFORCEMENT ADMINISTRATION	1.9	.5	1.4	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.8	.3	1.6	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	.4	.3	.1	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	51.6	2.9	3.5	-	8.3	-	34.0	.5	2.6	-
OFFICE OF THE ATTORNEY GENERAL	1.6	.1	.3	-	*	-	1.2	-	-	-
DEPARTMENT OF LABOR, TOTAL	97.8	9.0	7.4	-	11.9	*	69.3	-	.2	-
BUREAU OF LABOR STATISTICS	1.2	1.2	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3.7	3.0	.1	-	.4	*	.2	-	-	-
EMPLOYMENT & TRAINING ADMIN	86.6	3.1	4.6	-	10.4	-	68.2	-	.2	-
LABOR-MANAGEMENT SERVICES ADMIN	2.8	1.0	1.0	-	.2	-	.6	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	1.3	.2	.9	-	.2	-	-	-	-	-
OFFICE OF THE SECRETARY	2.2	.4	.7	-	.7	-	.3	-	-	-
DEPARTMENT OF STATE, TOTAL	85.2	4.4	9.0	*	19.9	-	22.0	-	*	29.9
AGENCY FOR INTERNAT'L DEVELOPMENT	82.4	4.0	7.4	*	19.4	-	21.7	-	*	29.8
DEPARTMENTAL FUNDS	2.8	.4	1.6	-	.5	-	.3	-	-	*

CONTINUED ON NEXT PAGE

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL: UNITED STATES AND TERRITORIES: INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	408.3	109.3	191.4	-	18.8	.2	10.3	11.3	67.0	-
COAST GUARD	23.7	5.5	17.2	-	.5	-	.5	-	-	-
FEDERAL AVIATION ADMINISTRATION	110.5	26.8	72.5	-	.6	.2	-	10.4	-	-
FEDERAL HIGHWAY ADMINISTRATION	51.7	12.6	5.0	-	8.3	-	1.6	-	24.2	-
FEDERAL RAILROAD ADMINISTRATION	53.9	19.6	30.2	-	.5	-	.5	.9	2.2	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	66.3	11.0	25.1	-	3.0	-	7.1	-	20.1	-
OFFICE OF THE SECRETARY	31.7	15.8	10.5	-	3.9	-	.5	-	1.0	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	.9	.3	.6	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	69.6	17.8	30.3	-	2.0	-	-	-	19.5	-
DEPARTMENT OF THE TREASURY, TOTAL	9.9	5.3	2.6	-	.1	-	-	1.9	*	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	2.0	.1	-	-	-	-	-	1.9	-	-
BUREAU OF ENGRAVING AND PRINTING ...	3.7	2.9	.8	-	-	-	-	-	-	-
CUSTOMS SERVICE	1.8	.3	1.4	-	.1	-	-	-	-	-
INTERNAL REVENUE SERVICE	2.4	1.9	.5	-	-	-	-	-	*	-
OTHER AGENCIES										
ACTION	1.6	.1	*	-	-	-	1.4	-	.1	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.7	1.7	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.5	*	.3	-	-	-	-	-	.1	-
CIVIL AERONAUTICS BOARD	.7	.7	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	24.3	1.5	-	-	-	-	22.8	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3.8	2.4	1.4	-	-	-	*	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	384.6	159.3	103.2	-	48.3	-	40.9	1.4	28.9	2.6
FEDERAL COMMUNICATIONS COMMISSION	2.4	1.8	.6	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	7.0	3.9	.4	-	1.5	.3	.7	-	.2	-
FEDERAL HOME LOAN BANK BOARD	1.0	.9	-	-	*	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.4	1.4	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	2.7	1.4	1.1	-	-	-	.1	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	.1	.1	*	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	.3	.3	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4.9	4.5	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,875.4	1,155.7	2,452.8	-	130.2	91.4	39.5	.9	1.0	4.0
NATIONAL SCIENCE FOUNDATION	748.8	83.4	22.1	1.7	537.2	53.5	41.2	.9	4.3	4.6
NUCLEAR REGULATORY COMMISSION	133.9	11.2	5.6	76.4	8.0	21.4	3.1	8.0	.2	.1
OFFICE OF PERSONNEL MANAGEMENT	4.5	2.0	-	-	-	-	-	-	2.5	*
SMITHSONIAN INSTITUTION	34.9	32.0	-	-	2.0	-	.9	-	-	-
TENNESSEE VALLEY AUTHORITY	31.5	17.1	-	-	.2	-	14.2	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3.6	.4	2.6	-	.1	.2	.3	*	-	*
US INTERNATIONAL TRADE COMMISSION	3.1	3.1	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	114.0	111.9	-	-	1.3	-	.8	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	29,576.0	7,521.5	13,651.0	1,254.7	3,864.3	1,411.4	1,139.9	328.6	280.2	124.3
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	666.9	449.0	.9	-	208.7	-	.1	-	.7	7.6
ECON, STAT & COOPERATIVES SERVICE	35.9	33.7	-	-	2.2	-	-	-	-	-
FOREST SERVICE	112.6	101.0	.9	-	10.6	-	.1	-	.1	-
SCIENCE & EDUCATION ADMINISTRATION	518.4	314.3	-	-	195.9	-	-	-	.6	7.6
AGRICULTURAL RESEARCH	344.5	307.5	-	-	29.4	-	-	-	-	7.6
COOPERATIVE RESEARCH	173.9	6.9	-	-	166.5	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	319.1	202.8	37.2	-	43.7	.2	16.1	.2	18.8	.2
BUREAU OF THE CENSUS	3.8	3.6	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	40.1	1.6	2.9	-	11.0	-	13.4	-	11.2	-
MARITIME ADMINISTRATION	20.8	2.7	17.2	-	.4	-	.2	.2	-	-
NATIONAL BUREAU OF STANDARDS	70.2	61.6	6.5	-	.9	-	1.1	-	-	.2
NAT'L OCEANIC & ATMOSPHERIC ADMIN	179.6	128.5	10.6	-	31.3	.2	1.4	-	7.6	-
NAT'L TELECOMM & INFORMATION ADMIN	4.2	4.2	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.5	.5	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,001.8	3,584.1	8,402.1	101.8	430.2	104.5	122.1	210.6	.9	45.4
DEPARTMENT OF THE ARMY	2,779.6	1,059.9	1,603.7	.3	51.8	22.2	18.6	7.5	.4	11.3
DEPARTMENT OF THE NAVY	4,618.2	1,218.2	3,008.2	100.0	188.4	19.6	91.8	6.9	-	25.2
DEPARTMENT OF THE AIR FORCE	4,679.1	1,032.7	3,245.7	-	158.4	33.2	28.8	171.7	-	8.6
DEFENSE AGENCIES	898.7	251.2	541.5	1.2	31.5	29.5	21.9	21.8	-	.3
DEFENSE CIVIL PREPAREDNESS AGENCY	5.2	1.1	2.0	.1	.2	-	1.0	.2	.6	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	24.6	21.0	1.1	-	-	-	-	2.6	-	-
DEPARTMENT OF ENERGY, TOTAL	4,688.5	351.9	1,718.3	1,030.1	255.2	1,104.1	109.7	99.5	13.6	6.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,665.4	769.3	170.6	35.4	1,970.2	9.8	565.4	1.9	96.7	46.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	218.2	58.2	5.0	-	114.9	-	32.8	-	5.9	1.4
CENTER FOR DISEASE CONTROL	68.0	45.7	5.9	-	8.7	-	3.8	-	.2	1.7
FOOD & DRUG ADMINISTRATION	62.0	43.2	4.8	-	8.4	-	3.9	-	.3	1.5
HEALTH CARE FINANCING ADMIN	32.5	8.8	11.7	-	.7	-	1.6	-	9.7	-
HEALTH RESOURCES ADMINISTRATION	1.5	*	-	-	1.1	-	-	-	-	.3
HEALTH SERVICES ADMINISTRATION	17.8	5.4	2.4	-	5.5	-	2.8	-	1.1	.7
HUMAN DEVELOPMENT SERVICES	92.6	6.8	6.0	-	34.4	-	32.9	-	8.4	4.1
NATIONAL INSTITUTE OF EDUCATION	92.5	15.9	7.7	-	28.8	-	32.2	-	8.1	.2
NATIONAL INSTITUTES OF HEALTH	2,960.6	557.1	110.9	35.4	1,737.1	9.8	429.8	1.9	47.2	31.4
OFFICE OF ASST'T SECY FOR EDUC	1.3	.2	-	-	-	-	1.1	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	37.0	11.4	1.0	-	11.1	-	9.8	-	1.0	2.8
OFFICE OF EDUCATION	40.4	2.4	11.4	-	15.7	-	8.6	-	2.2	-
OFFICE OF THE SECRETARY	25.0	3.2	2.4	-	3.2	-	9.1	-	11.1	-
SOCIAL SECURITY ADMINISTRATION	16.2	11.5	1.5	-	.8	-	.8	-	1.6	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	67.8	24.3	17.6	-	5.4	-	18.4	-	2.1	-
DEPARTMENT OF THE INTERIOR, TOTAL	435.0	268.6	80.3	.1	41.0	.1	3.1	-	39.8	2.0
BUREAU OF LAND MANAGEMENT	1.3	.6	-	-	.7	-	-	-	-	-
BUREAU OF MINES	131.2	61.6	61.0	-	6.1	-	2.5	-	-	-
BUREAU OF RECLAMATION	11.6	5.9	1.7	-	2.8	-	-	-	1.2	-
GEOLOGICAL SURVEY	174.0	162.3	1.4	-	10.3	-	-	-	-	-
NATIONAL PARK SERVICE	8.1	3.7	.1	-	4.0	-	.2	-	.1	-
OFFICE OF THE SECRETARY	3.5	.9	.3	-	.3	-	-	-	-	2.0
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.0	.2	1.0	.1	3.2	.1	.5	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	28.1	1.6	14.5	-	11.8	-	-	-	.2	-
US FISH & WILDLIFE SERVICE	72.2	31.7	.3	-	1.9	-	-	-	38.3	-
DEPARTMENT OF JUSTICE, TOTAL	45.3	6.1	6.0	-	7.9	-	21.8	.6	2.9	-
BUREAU OF PRISONS	3.6	2.0	*	-	.6	-	-	-	1.0	-
DRUG ENFORCEMENT ADMINISTRATION	4.0	1.4	2.0	-	-	-	.6	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.3	.2	1.1	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	.6	.2	.4	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	34.2	2.3	1.8	-	6.5	-	21.2	.6	2.0	-
OFFICE OF THE ATTORNEY GENERAL	1.7	*	.8	-	.9	-	*	-	-	-
DEPARTMENT OF LABOR, TOTAL	103.9	11.7	12.5	-	11.0	-	68.4	-	.2	-
BUREAU OF LABOR STATISTICS	.9	.9	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5.8	5.8	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	86.6	3.2	5.0	-	10.1	-	68.0	-	.2	-
LABOR-MANAGEMENT SERVICES ADMIN	3.2	1.1	1.0	-	.7	-	.4	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6.5	.2	6.3	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.8	.5	.1	-	.1	-	.1	-	-	-
DEPARTMENT OF STATE, TOTAL	105.6	8.2	5.7	-	60.0	.1	26.8	-	-	4.8
AGENCY FOR INTERNAT'L DEVELOPMENT	102.7	7.8	4.4	-	59.4	-	26.4	-	-	4.8
DEPARTMENTAL FUNDS	3.0	.5	1.4	-	.6	.1	.4	-	-	*

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TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	418.2	115.7	192.4	-	20.5	.2	21.7	.6	67.1	-
COAST GUARD	20.6	5.0	14.4	-	.9	-	.3	-	-	-
FEDERAL AVIATION ADMINISTRATION	121.6	29.4	80.1	-	.6	.2	10.7	.6	-	-
FEDERAL HIGHWAY ADMINISTRATION	56.4	13.2	5.6	-	9.2	-	1.9	-	26.5	-
FEDERAL RAILROAD ADMINISTRATION	49.8	18.1	27.8	-	.6	-	1.2	-	2.0	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	70.1	11.4	26.0	-	3.2	-	7.5	-	22.0	-
OFFICE OF THE SECRETARY	19.2	13.3	5.8	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	14.5	7.1	3.5	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	66.0	18.2	29.2	-	2.0	-	-	-	16.6	-
DEPARTMENT OF THE TREASURY, TOTAL	11.4	5.0	3.9	-	.3	-	-	2.2	*	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	2.4	.2	-	-	-	-	-	2.2	-	-
BUREAU OF ENGRAVING AND PRINTING ...	4.0	2.6	1.4	-	-	-	-	-	-	-
CUSTOMS SERVICE	2.1	.4	1.4	-	.3	-	-	-	-	-
INTERNAL REVENUE SERVICE	3.0	1.8	1.2	-	-	-	-	-	*	-
OTHER AGENCIES										
ACTION	1.6	.1	-	-	-	-	1.5	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.7	1.7	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	.1	.3	-	-	-	.1	-	.3	-
CIVIL AERONAUTICS BOARD	.8	.8	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	15.9	1.5	-	-	-	-	14.4	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	8.5	5.3	2.9	-	.1	-	.2	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	400.4	162.1	107.0	-	52.0	-	42.0	1.5	30.0	5.8
FEDERAL COMMUNICATIONS COMMISSION	3.4	1.6	1.8	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	8.0	4.7	.2	-	1.5	.3	1.3	-	*	-
FEDERAL HOME LOAN BANK BOARD	1.2	1.1	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.5	1.5	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.9	.1	.7	-	-	-	*	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	.2	.1	.1	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	.3	.3	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.1	4.6	.5	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,392.3	1,222.9	2,857.4	-	146.0	117.2	44.8	.9	.7	2.4
NATIONAL SCIENCE FOUNDATION	818.9	93.9	25.4	1.8	598.9	51.3	40.4	.6	3.4	3.2
NUCLEAR REGULATORY COMMISSION	151.6	14.3	4.9	85.9	7.7	23.7	3.9	10.1	.4	.7
OFFICE OF PERSONNEL MANAGEMENT	4.5	2.0	-	-	-	-	-	-	2.5	-
SMITHSONIAN INSTITUTION	37.3	33.9	-	-	2.3	-	1.0	-	-	-
TENNESSEE VALLEY AUTHORITY	58.2	42.0	-	-	.2	-	16.0	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3.6	.8	2.1	-	.2	-	.5	-	-	-
US INTERNATIONAL TRADE COMMISSION	3.3	3.3	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	127.3	125.9	-	-	1.1	-	.2	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	30,732.9	7,747.4	14,267.0	1,268.8	4,047.6	1,499.7	1,090.4	396.1	288.8	127.1
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	663.7	437.2	.9	-	216.6	-	.1	-	.7	8.3
ECON, STAT & COOPERATIVES SERVICE	39.8	37.6	-	-	2.2	-	-	-	-	-
FOREST SERVICE	105.4	96.4	.9	-	9.9	-	.1	-	.1	-
SCIENCE & EDUCATION ADMINISTRATION	518.5	305.1	-	-	204.5	-	-	-	.6	8.3
AGRICULTURAL RESEARCH	340.7	297.4	-	-	35.0	-	-	-	-	8.3
COOPERATIVE RESEARCH	177.8	7.7	-	-	169.5	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	321.9	216.9	32.7	.2	42.2	.7	11.4	.4	17.3	.2
BUREAU OF THE CENSUS	4.6	4.4	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	31.0	1.1	1.9	-	8.7	-	9.7	-	9.6	-
MARITIME ADMINISTRATION	17.3	2.2	14.4	-	.3	-	.2	.2	-	-
NATIONAL BUREAU OF STANDARDS	73.4	66.6	5.3	-	.9	-	.6	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	190.0	136.9	11.1	.2	32.0	.7	.9	.2	7.7	.1
NAT'L TELECOMM & INFORMATION ADMIN	5.1	5.1	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.5	.5	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,879.7	3,762.5	9,013.7	100.9	470.5	123.4	124.0	254.9	1.8	27.9
DEPARTMENT OF THE ARMY	3,044.8	1,131.0	1,801.2	-	58.2	21.2	19.8	9.1	.6	3.6
DEPARTMENT OF THE NAVY	4,527.9	1,243.2	2,882.7	100.0	203.3	20.3	53.8	9.8	-	14.7
DEPARTMENT OF THE AIR FORCE	5,220.9	1,055.6	3,698.8	-	178.7	36.2	31.8	210.3	-	9.6
DEFENSE AGENCIES	1,045.1	304.7	624.8	.8	30.0	45.8	16.4	22.7	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	10.9	3.4	4.3	.1	.3	-	2.2	.4	1.2	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	30.2	25.6	2.0	-	-	-	-	2.6	-	-
DEPARTMENT OF ENERGY, TOTAL	4,658.8	326.4	1,663.2	1,024.3	290.0	1,136.9	73.6	122.3	10.7	11.3
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,725.8	791.7	180.1	35.7	1,989.2	8.4	572.9	1.8	100.2	45.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	260.1	66.6	7.6	-	137.7	-	39.3	-	7.1	1.8
CENTER FOR DISEASE CONTROL	81.6	56.1	7.5	-	8.7	-	7.3	-	.3	3.6
FOOD & DRUG ADMINISTRATION	64.3	44.9	6.1	-	7.1	-	4.0	-	.3	2.0
HEALTH CARE FINANCING ADMIN	51.3	13.9	20.5	-	-	-	1.7	-	15.2	-
HEALTH RESOURCES ADMINISTRATION	.4	*	-	-	-	-	-	-	-	.3
HEALTH SERVICES ADMINISTRATION	15.3	5.0	2.5	-	3.9	-	2.1	-	.9	.8
HUMAN DEVELOPMENT SERVICES	88.6	6.5	6.4	-	30.6	-	30.5	-	10.1	4.4
NATIONAL INSTITUTE OF EDUCATION	98.3	14.7	8.2	-	29.2	-	37.9	-	8.1	.2
NATIONAL INSTITUTES OF HEALTH	2,961.4	556.8	107.5	35.7	1,746.6	8.4	430.3	1.8	44.1	30.3
OFFICE OF ASST'T SECY FOR EDUC	1.5	.2	-	-	-	-	1.2	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	31.9	10.1	.9	-	9.7	-	8.0	-	.9	2.4
OFFICE OF EDUCATION	27.7	2.6	8.2	-	12.0	-	4.8	-	.2	-
OFFICE OF THE SECRETARY	24.7	2.9	3.0	-	2.9	-	4.8	-	11.1	-
SOCIAL SECURITY ADMINISTRATION	18.8	13.3	1.7	-	.8	-	1.0	-	2.0	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	64.1	22.5	16.0	-	5.6	-	17.5	-	2.5	-
DEPARTMENT OF THE INTERIOR, TOTAL	417.3	261.2	69.5	.1	42.3	.1	2.7	-	40.4	1.0
BUREAU OF LAND MANAGEMENT	1.2	.5	-	-	.7	-	-	-	-	-
BUREAU OF MINES	107.1	49.8	48.4	-	6.4	-	2.5	-	-	-
BUREAU OF RECLAMATION	11.7	6.2	2.1	-	2.2	-	-	-	1.2	-
GEOLOGICAL SURVEY	178.2	166.1	1.8	-	10.3	-	-	-	-	-
NATIONAL PARK SERVICE	8.5	3.9	.1	-	4.2	-	.2	-	.1	-
OFFICE OF THE SECRETARY	2.4	.9	.3	-	.2	-	-	-	-	1.0
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.0	.2	1.4	.1	3.2	.1	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	30.0	1.7	15.0	-	13.1	-	-	-	.2	-
US FISH & WILDLIFE SERVICE	73.1	31.9	.4	-	2.0	-	-	-	38.9	-
DEPARTMENT OF JUSTICE, TOTAL	37.3	5.5	8.5	-	8.0	-	11.9	1.2	2.2	-
BUREAU OF PRISONS	1.0	.8	*	-	.2	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	3.2	1.0	1.8	-	-	-	-	.4	-	-
FEDERAL BUREAU OF INVESTIGATION	2.2	.2	2.0	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	.4	.2	.2	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	28.4	3.2	3.2	-	7.1	-	11.9	.8	2.2	-
OFFICE OF THE ATTORNEY GENERAL	2.0	*	1.3	-	.7	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	86.8	12.5	12.0	-	9.2	-	52.9	-	.2	-
BUREAU OF LABOR STATISTICS	.9	.8	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	7.1	7.1	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	68.4	2.8	4.5	-	8.3	-	52.5	-	.2	-
LABOR-MANAGEMENT SERVICES ADMIN	3.2	1.1	1.0	-	.7	-	.3	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6.5	.2	6.3	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.8	.5	.1	-	.1	-	.1	-	-	-
DEPARTMENT OF STATE, TOTAL	106.6	5.1	5.8	-	63.1	.1	12.1	-	-	20.5
AGENCY FOR INTERNAT'L DEVELOPMENT	104.4	4.8	4.7	-	62.6	-	11.8	-	-	20.5
DEPARTMENTAL FUNDS	2.2	.3	1.0	-	.4	.1	.3	-	-	*

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TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

- CONTINUED

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL	395.1	106.8	176.2	-	20.9	.2	19.9	.5	70.5	-
COAST GUARD	21.0	5.1	14.6	-	.9	-	.3	-	-	-
FEDERAL AVIATION ADMINISTRATION	107.4	25.9	70.7	-	.6	.2	9.5	.5	-	-
FEDERAL HIGHWAY ADMINISTRATION	58.3	13.5	5.8	-	9.2	-	1.8	-	28.0	-
FEDERAL RAILROAD ADMINISTRATION	44.4	16.0	24.8	-	.7	-	1.1	-	1.8	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	68.2	10.2	23.3	-	3.5	-	7.2	-	24.0	-
OFFICE OF THE SECRETARY	16.0	11.2	4.7	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	13.7	6.6	3.2	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	66.1	18.3	29.2	-	2.0	-	-	-	16.6	-
DEPARTMENT OF THE TREASURY, TOTAL	12.9	5.4	5.1	0.6	.3	-	-	1.6	*	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.7	.2	-	-	-	-	-	1.6	-	-
BUREAU OF ENGRAVING AND PRINTING	3.6	2.5	1.1	-	-	-	-	-	-	-
CUSTOMS SERVICE	4.1	.9	2.3	.6	.3	-	-	-	-	-
INTERNAL REVENUE SERVICE	3.5	1.8	1.7	-	-	-	-	-	*	-
OTHER AGENCIES										
ACTION	1.6	.1	-	-	-	-	1.5	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.7	1.7	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	.1	.3	-	-	-	.1	-	.3	-
CIVIL AERONAUTICS BOARD	.7	.7	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	27.0	1.5	-	-	-	-	25.5	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	6.1	3.4	2.6	-	.1	-	.1	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	435.6	162.1	127.0	-	55.0	-	50.0	2.0	35.0	4.5
FEDERAL COMMUNICATIONS COMMISSION	3.4	1.8	1.6	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	6.8	3.6	.2	-	1.5	.3	1.2	-	*	-
FEDERAL HOME LOAN BANK BOARD	1.3	1.2	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.3	1.3	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1.9	.1	1.7	-	-	-	*	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	.1	.1	*	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	.3	.3	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.3	4.8	.5	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	4,540.0	1,274.7	2,915.1	-	151.0	149.0	46.2	.9	.7	2.3
NATIONAL SCIENCE FOUNDATION	910.1	98.5	26.0	2.0	671.7	58.8	44.7	.6	3.5	4.5
NUCLEAR REGULATORY COMMISSION	176.3	22.5	5.6	105.1	7.4	21.8	2.9	10.1	.3	.7
OFFICE OF PERSONNEL MANAGEMENT	5.0	2.5	-	-	-	-	-	-	2.5	-
SMITHSONIAN INSTITUTION	39.3	35.9	-	-	2.3	-	1.1	-	-	-
TENNESSEE VALLEY AUTHORITY	64.0	46.0	-	-	.2	-	17.7	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	4.2	.8	2.6	-	.3	-	.5	-	-	-
US INTERNATIONAL TRADE COMMISSION	3.6	3.6	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	126.5	126.4	-	-	.1	-	*	-	-	-

* INDICATES AMOUNT LESS THAN $50,000.

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	9,750,885	3,216,914	1,792,741	235,173	2,932,560	714,850	592,970	66,926	128,827	69,924
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	594,484	398,013	5,959	-	181,419	-	257	-	1,042	7,794
ECON, STAT & COOPERATIVES SERVICE	32,700	30,516	-	-	2,184	-	-	-	-	-
FOREST SERVICE	100,658	89,652	808	-	10,023	-	47	-	123	-
SCIENCE & EDUCATION ADMINISTRATION	461,131	277,845	5,151	-	169,212	-	210	-	919	7,794
AGRICULTURAL RESEARCH	303,707	272,650	5,151	-	17,555	-	210	-	347	7,794
COOPERATIVE RESEARCH	157,424	5,195	-	-	151,657	-	-	-	572	-
DEPARTMENT OF COMMERCE, TOTAL	192,775	146,108	9,930	-	25,624	126	4,190	-	6,565	232
BUREAU OF THE CENSUS	2,336	2,198	-	-	138	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	5,912	912	-	-	2,607	-	2,043	-	350	-
MARITIME ADMINISTRATION	7,000	1,144	5,500	-	165	-	191	-	-	-
NATIONAL BUREAU OF STANDARDS	48,524	45,141	1,765	-	619	-	817	-	-	182
NAT'L OCEANIC & ATMOSPHERIC ADMIN	127,920	95,628	2,665	-	22,097	126	1,139	-	6,215	50
NAT'L TELECOMM & INFORMATION ADMIN	1,085	1,085	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,941,213	721,773	849,532	1,342	297,313	53,141	44,770	13,519	999	8,824
DEPARTMENT OF THE ARMY	414,300	278,032	79,168	-	40,211	2,236	12,138	230	157	2,131
DEPARTMENT OF THE NAVY	402,000	197,735	90,289	-	90,739	13,594	4,954	766	-	3,953
DEPARTMENT OF THE AIR FORCE	685,727	149,213	418,565	-	88,469	19,600	7,580	-	-	2,280
DEFENSE AGENCIES	431,686	95,120	258,983	1,260	27,674	17,711	18,624	12,254	-	460
DEFENSE CIVIL PREPAREDNESS AGENCY	7,500	1,673	2,937	82	220	-	1,477	269	842	-
DEPARTMENT OF ENERGY, TOTAL	1,102,243	42,910	138,469	130,382	174,760	551,383	22,044	40,415	458	1,422
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	2,740,717	622,796	88,078	25,164	1,522,252	7,086	376,677	1,413	63,935	33,316
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	178,751	51,278	2,662	-	94,934	-	23,692	250	4,583	1,752
CENTER FOR DISEASE CONTROL	60,084	42,618	4,332	-	6,188	-	3,746	-	437	2,763
FOOD & DRUG ADMINISTRATION	64,134	41,093	6,113	-	11,237	-	5,005	-	161	525
HEALTH CARE FINANCING ADMIN	19,400	5,238	6,836	-	1,700	-	970	-	4,656	-
HEALTH RESOURCES ADMINISTRATION	5,000	200	-	-	4,800	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	10,616	3,831	185	-	3,037	-	1,425	-	490	1,648
HUMAN DEVELOPMENT SERVICES	45,161	2,881	1,717	-	24,370	-	11,360	-	4,375	298
NATIONAL INSTITUTE OF EDUCATION	34,616	5,750	1,548	-	13,721	-	10,507	-	3,090	-
NATIONAL INSTITUTES OF HEALTH	2,232,596	446,637	58,482	25,164	1,342,975	7,086	298,492	1,163	29,202	23,795
OFFICE OF ASST'T SECY FOR EDUC	1,316	138	-	-	-	-	1,178	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	32,631	9,960	974	-	9,739	-	8,623	-	960	2,375
OFFICE OF EDUCATION	13,311	611	2,014	-	6,529	-	3,482	-	475	200
OFFICE OF THE SECRETARY	30,201	2,715	2,692	-	2,696	-	7,401	-	14,697	-
SOCIAL SECURITY ADMINISTRATION	12,900	9,846	523	-	1,126	-	596	-	809	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	30,535	10,901	6,296	-	9,664	-	6,941	-	733	-
DEPARTMENT OF THE INTERIOR, TOTAL	309,753	225,974	17,484	193	30,842	156	1,907	-	33,149	48
BUREAU OF LAND MANAGEMENT	1,038	467	-	-	571	-	-	-	-	-
BUREAU OF MINES	57,000	43,800	10,200	-	2,200	-	800	-	-	-
BUREAU OF RECLAMATION	10,596	5,686	1,567	-	2,124	-	-	-	1,219	-
GEOLOGICAL SURVEY	159,917	149,693	988	-	9,236	-	-	-	-	-
NATIONAL PARK SERVICE	7,700	3,512	114	-	3,816	-	178	-	80	-
OFFICE OF THE SECRETARY	1,738	1,048	353	-	287	-	-	-	-	48
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2,194	198	510	193	208	156	929	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,400	1,000	3,500	-	10,700	-	-	-	200	-
US FISH & WILDLIFE SERVICE	54,170	20,570	250	-	1,700	-	-	-	31,650	-
DEPARTMENT OF JUSTICE, TOTAL	45,722	3,036	1,967	-	7,245	-	31,586	290	1,598	-
BUREAU OF PRISONS	679	210	-	-	81	-	-	-	388	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	400	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	189	158	31	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	43,300	2,487	1,500	-	7,124	-	30,689	290	1,210	-
OFFICE OF THE ATTORNEY GENERAL	1,054	81	36	-	40	-	897	-	-	-
DEPARTMENT OF LABOR, TOTAL	25,711	6,514	4,036	-	9,209	3	5,934	-	15	-
BUREAU OF LABOR STATISTICS	782	722	60	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,737	3,026	122	-	370	3	216	-	-	-
EMPLOYMENT & TRAINING ADMIN	14,931	1,124	1,264	-	7,724	-	4,804	-	15	-
LABOR-MANAGEMENT SERVICES ADMIN	2,761	1,006	1,012	-	177	-	566	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	1,300	200	869	-	231	-	-	-	-	-
OFFICE OF THE SECRETARY	2,200	436	709	-	707	-	348	-	-	-
DEPARTMENT OF STATE, TOTAL	49,126	3,378	4,090	45	16,892	-	13,899	-	-	10,822
AGENCY FOR INTERNAT'L DEVELOPMENT	46,648	2,990	2,848	45	16,368	-	13,597	-	-	10,800
DEPARTMENTAL FUNDS	2,478	388	1,242	-	524	-	302	-	-	22

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TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,500	21,790	31,179	-	1,500	-	6,080	-	5,951	-
COAST GUARD	2,300	701	1,599	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	6,800	1,519	5,281	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	1,607	1,484	-	-	-	1,635	-	174	-
FEDERAL RAILROAD ADMINISTRATION	9,200	7,165	2,035	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,000	8,667	19,433	-	1,200	-	4,401	-	4,299	-
OFFICE OF THE SECRETARY	4,100	1,431	1,347	-	300	-	44	-	978	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	100	100	-	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,114	3,076	661	-	-	-	-	364	13	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	414	50	-	-	-	-	-	364	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,900	1,501	399	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,800	1,525	262	-	-	-	-	-	13	-
OTHER AGENCIES										
ACTION	231	14	-	-	-	-	217	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	1,685	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	320	17	193	-	-	-	-	-	110	-
CIVIL AERONAUTICS BOARD	711	711	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,961	20	-	-	-	-	1,941	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	917	414	503	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	252,670	114,634	62,005	-	46,871	-	17,173	1,381	9,522	1,082
FEDERAL COMMUNICATIONS COMMISSION	2,400	1,775	625	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	4,792	2,725	89	-	1,484	297	197	-	-	-
FEDERAL HOME LOAN BANK BOARD	977	931	-	-	46	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,356	1,356	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	2,150	1,349	679	-	-	-	122	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	115	93	22	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	250	250	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,345,167	645,127	542,070	-	116,298	27,668	11,493	671	232	1,608
NATIONAL SCIENCE FOUNDATION	743,502	83,329	21,882	1,674	534,162	53,474	39,187	870	4,301	4,623
NUCLEAR REGULATORY COMMISSION	133,891	11,222	5,569	76,373	7,981	21,394	3,087	7,993	204	108
OFFICE OF PERSONNEL MANAGEMENT	987	987	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	34,896	31,996	-	-	2,994	-	906	-	-	-
TENNESSEE VALLEY AUTHORITY	13,500	9,773	-	-	171	-	3,556	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,495	434	1,423	-	109	162	312	10	-	45
US INTERNATIONAL TRADE COMMISSION	3,119	3,119	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	99,400	98,184	-	-	724	-	492	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	10,889,188	3,546,045	2,050,956	248,483	3,340,514	751,855	646,565	88,457	141,409	74,908
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	637,513	423,716	861	-	205,422	-	50	-	702	6,762
ECON, STAT & COOPERATIVES SERVICE	35,900	33,700	-	-	2,200	-	-	-	-	-
FOREST SERVICE	107,310	95,668	861	-	10,600	-	50	-	131	-
SCIENCE & EDUCATION ADMINISTRATION	494,303	294,348	-	-	192,622	-	-	-	571	6,762
AGRICULTURAL RESEARCH	320,384	287,485	-	-	26,137	-	-	-	-	6,762
COOPERATIVE RESEARCH	173,919	6,863	-	-	166,485	-	-	-	571	-
DEPARTMENT OF COMMERCE, TOTAL	216,199	163,089	12,082	-	28,326	100	4,675	-	7,770	157
BUREAU OF THE CENSUS	2,724	2,503	-	-	221	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	5,500	585	1,145	-	945	-	2,615	-	210	-
MARITIME ADMINISTRATION	7,200	1,582	5,486	-	132	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	53,659	50,327	1,775	-	600	-	800	-	-	157
NAT'L OCEANIC & ATMOSPHERIC ADMIN	144,624	105,600	3,676	-	26,428	100	1,260	-	7,560	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	2,492	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,152,731	777,697	962,659	1,204	271,742	63,718	45,642	15,662	722	13,685
DEPARTMENT OF THE ARMY	435,528	288,654	86,503	-	43,964	1,952	11,696	370	150	2,239
DEPARTMENT OF THE NAVY	445,100	221,115	95,037	-	99,806	14,021	5,177	1,121	-	8,823
DEPARTMENT OF THE AIR FORCE	740,930	163,311	451,467	-	97,314	18,200	8,293	-	-	2,345
DEFENSE AGENCIES	525,973	103,473	327,624	1,152	30,502	29,545	19,436	13,963	-	278
DEFENSE CIVIL PREPAREDNESS AGENCY	5,200	1,144	2,028	52	156	-	1,040	208	572	-
DEPARTMENT OF ENERGY, TOTAL	1,183,188	52,687	132,766	131,281	183,528	568,958	35,512	57,644	210	602
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,141,524	700,189	104,868	28,214	1,765,915	8,248	421,734	1,317	70,780	40,259
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	216,892	58,057	3,818	-	114,866	-	32,829	-	5,914	1,408
CENTER FOR DISEASE CONTROL	67,978	45,662	5,874	-	8,700	-	3,800	-	196	3,746
FOOD & DRUG ADMINISTRATION	61,967	43,204	4,763	-	8,351	-	3,941	-	258	1,450
HEALTH CARE FINANCING ADMIN	32,500	8,775	11,700	-	700	-	1,625	-	9,700	-
HEALTH RESOURCES ADMINISTRATION	1,100	44	-	-	1,056	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	10,187	4,400	185	-	3,037	-	1,425	-	490	650
HUMAN DEVELOPMENT SERVICES	52,468	3,322	1,783	-	25,404	-	13,939	-	3,999	4,021
NATIONAL INSTITUTE OF EDUCATION	42,500	7,145	1,908	-	16,849	-	12,723	-	3,875	-
NATIONAL INSTITUTES OF HEALTH	2,561,802	503,680	64,667	28,214	1,564,357	8,248	332,420	1,317	32,685	26,214
OFFICE OF ASST'T SECY FOR EDUC	1,288	151	-	-	-	-	1,137	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	33,172	10,067	904	-	9,958	-	8,612	-	861	2,770
OFFICE OF EDUCATION	18,470	1,016	5,366	-	8,611	-	3,402	-	75	-
OFFICE OF THE SECRETARY	25,000	3,164	2,442	-	3,226	-	5,076	-	11,092	-
SOCIAL SECURITY ADMINISTRATION	16,200	11,502	1,458	-	800	-	805	-	1,635	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	31,821	10,618	7,520	-	5,410	-	7,637	-	636	-
DEPARTMENT OF THE INTERIOR, TOTAL	374,683	253,696	40,729	50	36,867	100	1,437	-	39,804	2,000
BUREAU OF LAND MANAGEMENT	1,121	482	-	-	639	-	-	-	-	-
BUREAU OF MINES	90,400	54,700	32,900	-	2,000	-	800	-	-	-
BUREAU OF RECLAMATION	11,049	5,395	1,700	-	2,754	-	-	-	1,200	-
GEOLOGICAL SURVEY	174,031	162,311	1,390	-	10,330	-	-	-	-	-
NATIONAL PARK SERVICE	8,085	3,687	120	-	4,007	-	187	-	84	-
OFFICE OF THE SECRETARY	3,517	941	319	-	257	-	-	-	-	2,000
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	1,000	50	3,180	100	450	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	16,100	1,100	3,000	-	11,800	-	-	-	200	-
US FISH & WILDLIFE SERVICE	65,400	24,880	300	-	1,900	-	-	-	38,320	-
DEPARTMENT OF JUSTICE, TOTAL	32,987	2,922	2,178	-	7,301	-	18,428	550	1,608	-
BUREAU OF PRISONS	1,461	661	-	-	242	-	-	-	558	-
DRUG ENFORCEMENT ADMINISTRATION	1,200	400	800	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	281	18	263	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	28,600	1,823	600	-	6,159	-	18,418	550	1,050	-
OFFICE OF THE ATTORNEY GENERAL	1,445	20	515	-	900	-	10	-	-	-
DEPARTMENT OF LABOR, TOTAL	32,201	9,608	9,135	-	8,553	-	4,849	-	56	-
BUREAU OF LABOR STATISTICS	912	855	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,813	5,813	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	14,947	1,106	1,658	-	7,696	-	4,431	-	56	-
LABOR-MANAGEMENT SERVICES ADMIN	3,183	1,088	1,000	-	737	-	358	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	800	500	120	-	120	-	60	-	-	-
DEPARTMENT OF STATE, TOTAL	78,879	7,120	3,082	-	44,882	79	20,117	-	-	3,599
AGENCY FOR INTERNAT'L DEVELOPMENT	76,325	6,690	2,060	-	44,297	-	19,727	-	-	3,551
DEPARTMENTAL FUNDS	2,554	430	1,022	-	585	79	390	-	-	48

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TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL	77,300	25,491	39,128	-	1,320	-	6,382	-	4,979	-
COAST GUARD	6,200	1,889	4,191	-	120	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	2,001	6,999	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	1,758	1,732	-	-	-	1,907	-	203	-
FEDERAL RAILROAD ADMINISTRATION	8,500	6,619	1,881	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,600	8,809	19,757	-	1,200	-	4,475	-	4,359	-
OFFICE OF THE SECRETARY	3,600	1,620	1,980	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,800	2,212	2,588	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	583	-	-	-	-	-	-	417	-
DEPARTMENT OF THE TREASURY, TOTAL	4,794	2,738	1,617	-	-	-	-	414	25	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	494	80	-	-	-	-	-	414	-	-
BUREAU OF ENGRAVING AND PRINTING	2,100	1,383	717	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,200	1,275	900	-	-	-	-	-	25	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,703	1,703	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	830	830	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	10	-	-	-	-	990	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,800	1,844	1,856	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	267,254	117,400	69,103	-	49,400	-	17,640	1,500	9,900	2,311
FEDERAL COMMUNICATIONS COMMISSION	3,400	1,649	1,751	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	4,988	2,921	89	-	1,484	297	197	-	-	-
FEDERAL HOME LOAN BANK BOARD	1,210	1,092	-	-	118	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,521	1,521	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	739	67	640	-	-	-	32	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	164	63	101	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	265	265	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,495,102	709,483	608,918	-	126,000	35,390	12,761	690	245	1,615
NATIONAL SCIENCE FOUNDATION	811,069	93,902	29,123	1,834	593,047	51,265	38,778	580	3,357	3,183
NUCLEAR REGULATORY COMMISSION	151,580	14,304	4,900	85,900	7,650	23,700	3,880	10,100	411	735
OFFICE OF PERSONNEL MANAGEMENT	1,024	1,024	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	37,292	33,937	-	-	2,308	-	1,047	-	-	-
TENNESSEE VALLEY AUTHORITY	23,439	19,238	-	-	212	-	3,989	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	3,076	760	1,600	-	200	-	516	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,285	3,285	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	111,527	110,626	-	-	729	-	172	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCs ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCs ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCs ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	11,993,309	3,714,195	2,287,283	282,068	3,487,344	837,917	657,148	90,279	151,621	85,898
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	639,751	414,080	863	-	212,710	-	50	-	702	7,366
ECON, STAT & COOPERATIVES SERVICE	39,800	37,600	-	-	2,200	-	-	-	-	-
FOREST SERVICE	100,410	89,464	863	-	9,900	-	50	-	133	-
SCIENCE & EDUCATION ADMINISTRATION	495,541	286,996	-	-	200,610	-	-	-	569	7,366
AGRICULTURAL RESEARCH	317,700	279,263	-	-	31,071	-	-	-	-	7,366
COOPERATIVE RESEARCH	177,841	7,733	-	-	169,539	-	-	-	569	-
DEPARTMENT OF COMMERCE, TOTAL	228,193	178,006	10,278	-	28,822	739	2,210	200	7,779	167
BUREAU OF THE CENSUS	3,158	2,924	-	-	234	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,500	261	513	-	436	-	1,210	-	80	-
MARITIME ADMINISTRATION	6,100	1,289	4,712	-	99	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	57,430	55,685	775	-	600	-	300	-	-	70
NAT'L OCEANIC & ATMOSPHERIC ADMIN	155,945	114,787	4,278	-	27,453	739	700	200	7,695	97
NAT'L TELECOMM & INFORMATION ADMIN	3,060	3,060	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,412,545	865,812	1,098,669	863	293,122	80,287	43,770	14,824	1,499	13,699
DEPARTMENT OF THE ARMY	902,755	307,022	127,603	-	51,606	621	12,751	291	300	2,561
DEPARTMENT OF THE NAVY	448,100	230,799	84,451	-	101,848	14,805	6,064	1,525	-	8,608
DEPARTMENT OF THE AIR FORCE	805,600	177,363	487,497	-	110,237	19,100	8,873	-	-	2,530
DEFENSE AGENCIES	645,190	148,230	394,867	754	29,104	45,761	13,902	12,572	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	10,900	2,398	4,251	109	327	-	2,180	436	1,199	-
DEPARTMENT OF ENERGY, TOTAL	1,267,947	51,656	134,295	145,295	204,149	623,441	47,610	59,799	219	1,463
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,217,409	724,904	119,226	28,690	1,789,116	7,070	431,388	1,227	75,527	40,261
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	258,411	66,359	6,198	-	137,686	-	39,296	-	7,113	1,762
CENTER FOR DISEASE CONTROL	81,572	34,111	7,533	-	8,700	-	7,331	-	251	3,646
FOOD & DRUG ADMINISTRATION	64,287	44,927	6,074	-	7,095	-	3,960	-	259	1,972
HEALTH CARE FINANCING ADMIN	51,300	13,851	20,520	-	-	-	1,700	-	15,229	-
HEALTH SERVICES ADMINISTRATION	7,917	4,200	196	-	1,839	-	614	-	288	780
HUMAN DEVELOPMENT SERVICES	49,440	3,166	1,966	-	22,839	-	13,025	-	4,063	4,385
NATIONAL INSTITUTE OF EDUCATION	45,500	6,787	2,041	-	18,043	-	14,521	-	4,108	-
NATIONAL INSTITUTES OF HEALTH	2,566,940	504,606	62,058	28,690	1,573,387	7,070	334,287	1,227	30,279	25,336
OFFICE OF ASST'T SECY FOR EDUC	1,486	248	-	-	-	-	1,238	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	28,725	8,852	791	-	8,705	-	7,206	-	791	2,380
OFFICE OF EDUCATION	18,316	1,570	7,125	-	7,091	-	2,455	-	75	-
OFFICE OF THE SECRETARY	24,715	2,879	3,035	-	2,935	-	4,779	-	11,087	-
SOCIAL SECURITY ADMINISTRATION	18,800	13,248	1,692	-	800	-	976	-	1,984	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	27,777	9,022	5,811	-	5,622	-	6,266	-	1,056	-
DEPARTMENT OF THE INTERIOR, TOTAL	369,390	247,447	41,656	100	37,733	100	996	-	40,358	1,000
BUREAU OF LAND MANAGEMENT	1,007	433	-	-	574	-	-	-	-	-
BUREAU OF MINES	78,500	44,300	31,400	-	2,000	-	800	-	-	-
BUREAU OF RECLAMATION	10,990	5,590	2,100	-	2,100	-	-	-	1,200	-
GEOLOGICAL SURVEY	178,180	166,069	1,781	-	10,330	-	-	-	-	-
NATIONAL PARK SERVICE	8,489	3,872	126	-	4,207	-	196	-	88	-
OFFICE OF THE SECRETARY	2,424	883	299	-	242	-	-	-	-	1,000
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	1,400	100	3,180	100	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	18,600	1,100	4,200	-	13,100	-	-	-	200	-
US FISH & WILDLIFE SERVICE	66,220	25,000	350	-	2,000	-	-	-	38,870	-
DEPARTMENT OF JUSTICE, TOTAL	26,038	2,727	4,950	-	6,747	-	9,960	600	1,054	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	200	800	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	50	150	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	23,128	2,467	3,000	-	6,047	-	9,960	600	1,054	-
OFFICE OF THE ATTORNEY GENERAL	1,710	10	1,000	-	700	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	32,770	10,691	8,481	-	6,605	-	6,938	-	55	-
BUREAU OF LABOR STATISTICS	864	807	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	7,056	7,056	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	14,352	993	1,004	-	5,748	-	6,552	-	55	-
LABOR-MANAGEMENT SERVICES ADMIN	3,152	1,089	1,000	-	737	-	326	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	800	500	120	-	120	-	60	-	-	-
DEPARTMENT OF STATE, TOTAL	74,216	4,303	2,789	-	42,291	66	11,465	-	-	13,302
AGENCY FOR INTERNAT'L DEVELOPMENT	72,441	4,015	2,083	-	41,871	-	11,200	-	-	13,272
DEPARTMENTAL FUNDS	1,775	288	706	-	420	66	265	-	-	30

CONTINUED ON NEXT PAGE

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

• CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	67,300	22,334	34,024	-	1,320	-	5,466	-	4,156	-
COAST GUARD	7,100	2,163	4,817	-	120	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,800	1,734	6,066	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	1,715	1,661	-	-	-	1,829	-	195	-
FEDERAL RAILROAD ADMINISTRATION	7,500	5,840	1,660	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	31,600	7,160	16,059	-	1,200	-	3,637	-	3,544	-
OFFICE OF THE SECRETARY	2,500	1,111	1,389	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,400	2,028	2,372	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	583	-	-	-	-	-	-	417	-
DEPARTMENT OF THE TREASURY, TOTAL	4,956	2,807	1,858	-	-	-	-	266	25	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	-	-	-	-	-	266	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,900	1,342	558	-	-	-	-	-	-	-
CUSTOMS SERVICE	110	110	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,600	1,275	1,300	-	-	-	-	-	25	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,683	1,683	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	730	730	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	2,000	20	-	-	-	-	1,980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	890	1,110	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	314,303	122,210	97,998	-	52,250	-	23,000	2,000	15,000	1,845
FEDERAL COMMUNICATIONS COMMISSION	3,400	1,790	1,610	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,894	1,827	89	-	1,484	297	197	-	-	-
FEDERAL HOME LOAN BANK BOARD	1,325	1,185	-	-	140	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,312	1,312	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1,488	71	1,385	-	-	-	32	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	140	100	40	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	300	300	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,636,992	756,036	689,416	-	130,000	44,946	14,080	704	245	1,565
NATIONAL SCIENCE FOUNDATION	901,085	98,423	25,510	2,020	664,967	58,755	42,875	555	3,450	4,530
NUCLEAR REGULATORY COMMISSION	176,270	22,470	5,600	105,100	7,350	21,800	2,850	10,100	300	700
OFFICE OF PERSONNEL MANAGEMENT	1,254	1,254	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	39,330	35,944	-	-	2,329	-	1,057	-	-	-
TENNESSEE VALLEY AUTHORITY	24,500	19,860	-	-	212	-	4,428	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,975	600	1,375	-	200	-	400	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,648	3,648	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	109,588	109,483	-	-	75	-	30	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	9,750,885	10,889,188	11,593,309
LIFE SCIENCES, TOTAL	3,430,134	3,896,484	3,992,956
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,497,190	1,698,826	1,742,517
ENVIRONMENTAL BIOLOGY	185,133	203,163	227,949
AGRICULTURAL	350,795	380,079	383,111
MEDICAL	1,280,852	1,440,932	1,463,836
LIFE SCIENCES, NEC	116,164	173,484	175,543
PSYCHOLOGY, TOTAL	192,527	208,032	228,791
BIOLOGICAL ASPECTS	68,048	71,359	77,006
SOCIAL ASPECTS	73,870	82,027	92,266
PSYCHOLOGICAL SCIENCES, NEC	50,609	54,646	59,519
PHYSICAL SCIENCES, TOTAL	1,683,397	1,846,921	2,063,632
ASTRONOMY	215,603	248,450	302,675
CHEMISTRY	415,557	431,738	479,407
PHYSICS	965,057	1,068,781	1,148,213
PHYSICAL SCIENCES, NEC	87,180	97,952	133,337
ENVIRONMENTAL SCIENCES, TOTAL	1,050,245	1,180,003	1,288,505
ATMOSPHERIC	323,235	360,830	400,585
GEOLOGICAL	336,433	370,747	383,440
OCEANOGRAPHY	225,545	239,668	270,466
ENVIRONMENTAL SCIENCES, NEC	165,032	208,758	234,014
MATHEMATICS & COMPUTER SCIENCES, TOTAL	239,952	275,579	315,519
MATHEMATICS	92,044	91,378	97,946
COMPUTER SCIENCES	131,605	151,815	162,578
MATHEMATICS & COMPUTER SCIENCES, NEC	11,903	32,386	54,995
ENGINEERING, TOTAL	2,445,914	2,659,016	2,799,016
AERONAUTICAL	482,107	537,475	591,304
ASTRONAUTICAL	176,954	174,729	175,287
CHEMICAL	152,649	136,675	153,824
CIVIL	145,642	183,790	165,356
ELECTRICAL	461,754	494,117	558,722
MECHANICAL	274,888	313,527	292,697
METALLURGY & MATERIALS	294,637	323,851	326,646
ENGINEERING, NEC	457,283	494,852	531,180
SOCIAL SCIENCES, TOTAL	506,876	560,310	575,425
ANTHROPOLOGY	19,526	18,708	20,934
ECONOMICS	163,846	177,210	179,010
POLITICAL SCIENCE	8,816	9,937	9,829
SOCIOLOGY	60,313	58,699	62,066
SOCIAL SCIENCES, NEC	254,375	295,756	303,586
OTHER SCIENCES, NEC	206,240	262,863	333,465

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	9,750,885	3,430,134	192,527	1,683,397	1,050,245	235,552	2,445,914	506,876	206,240
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	594,484	403,820	101	52,104	14,625	4,713	44,599	74,522	-
ECON, STAT & COOPERATIVES SERVICE	32,700	-	-	-	-	1,439	-	31,261	-
FOREST SERVICE	100,653	63,107	101	5,051	11,943	1,585	11,572	7,294	-
SCIENCE & EDUCATION ADMINISTRATION	461,131	340,713	-	47,053	2,682	1,689	33,027	35,967	-
AGRICULTURAL RESEARCH	303,707	227,848	-	39,932	1,791	1,689	28,145	4,302	-
COOPERATIVE RESEARCH	157,424	112,865	-	7,121	891	-	4,882	31,665	-
DEPARTMENT OF COMMERCE, TOTAL	192,775	48,347	263	32,507	71,182	5,273	24,838	10,323	42
BUREAU OF THE CENSUS	2,334	-	263	-	-	1,569	-	460	42
ECONOMIC DEVELOPMENT ADMINISTRATION	5,912	-	-	-	-	-	-	5,912	-
MARITIME ADMINISTRATION	7,000	-	-	-	-	-	6,570	430	-
NATIONAL BUREAU OF STANDARDS	48,524	-	-	27,476	256	2,489	15,062	3,241	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	127,920	48,347	-	5,031	70,926	1,215	2,121	280	-
NAT'L TELECOMM & INFORMATION ADMIN	1,085	-	-	-	-	-	1,085	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,941,213	140,606	53,375	358,440	142,156	120,766	1,023,111	22,612	80,147
DEPARTMENT OF THE ARMY	414,300	79,128	21,552	84,178	17,028	10,420	181,427	17,802	2,765
DEPARTMENT OF THE NAVY	402,000	21,763	10,989	100,609	64,779	29,793	172,727	1,340	-
DEPARTMENT OF THE AIR FORCE	685,727	30,207	13,682	94,434	36,002	48,683	462,719	-	-
DEFENSE AGENCIES	431,686	8,950	6,797	78,112	24,347	31,225	204,322	1,686	76,247
DEFENSE CIVIL PREPAREDNESS AGENCY	7,500	558	355	1,107	-	[illegible]	1,916	1,784	1,135
DEPARTMENT OF ENERGY, TOTAL	1,102,243	135,116	-	615,841	90,660	7,698	230,756	325	21,847
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	2,740,717	2,262,801	85,328	58,311	-	10,190	42,832	208,398	72,857
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	178,751	94,137	57,316	1,261	-	1,020	209	24,704	104
CENTER FOR DISEASE CONTROL	60,084	60,084	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,134	64,134	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	19,400	-	-	-	-	-	-	19,400	-
HEALTH RESOURCES ADMINISTRATION	5,000	-	-	-	-	-	-	5,000	-
HEALTH SERVICES ADMINISTRATION	10,616	10,316	-	-	-	-	-	-	300
HUMAN DEVELOPMENT SERVICES	45,161	15,619	2,679	-	-	-	6,338	20,525	-
NATIONAL INSTITUTE OF EDUCATION	34,616	-	-	-	-	-	-	34,616	-
NATIONAL INSTITUTES OF HEALTH	2,232,596	2,018,511	25,333	57,050	-	9,170	36,285	13,794	72,453
OFFICE OF ASST'T SECY FOR EDUC	1,316	-	-	-	-	-	-	1,316	-
OFFICE OF ASST'T SECY FOR HEALTH	32,631	-	-	-	-	-	-	32,631	-
OFFICE OF EDUCATION	13,311	-	-	-	-	-	-	13,311	-
OFFICE OF THE SECRETARY	30,201	-	-	-	-	-	-	30,201	-
SOCIAL SECURITY ADMINISTRATION	12,900	-	-	-	-	-	-	12,900	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	30,535	-	-	-	-	-	2,639	27,896	-
DEPARTMENT OF THE INTERIOR, TOTAL	309,753	62,423	350	18,906	159,199	6,344	56,829	4,674	1,028
BUREAU OF LAND MANAGEMENT	1,038	809	-	-	143	-	-	86	-
BUREAU OF MINES	57,000	-	-	4,900	6,965	2,850	42,285	-	-
BUREAU OF RECLAMATION	10,596	306	-	-	8,001	-	2,107	129	53
GEOLOGICAL SURVEY	159,917	-	-	13,156	137,816	2,907	6,038	-	-
NATIONAL PARK SERVICE	7,700	4,840	-	-	461	-	-	2,399	-
OFFICE OF THE SECRETARY	1,738	-	-	-	898	11	829	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2,194	158	-	-	955	426	595	60	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,400	2,140	350	850	3,960	150	4,975	2,000	975
US FISH & WILDLIFE SERVICE	54,170	54,170	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	45,722	400	5,352	-	-	150	1,089	38,731	-
BUREAU OF PRISONS	679	-	-	-	-	-	-	679	-
DRUG ENFORCEMENT ADMINISTRATION	500	-	100	-	-	-	400	-	-
IMMIGRATION & NATURALIZATION SVC	189	-	-	-	-	-	189	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	43,300	400	5,252	-	-	150	500	36,998	-
OFFICE OF THE ATTORNEY GENERAL	1,054	-	-	-	-	-	-	1,054	-
DEPARTMENT OF LABOR, TOTAL	25,711	-	398	-	-	-	-	25,313	-
BUREAU OF LABOR STATISTICS	782	-	-	-	-	-	-	782	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,737	-	-	-	-	-	-	3,737	-
EMPLOYMENT & TRAINING ADMIN	14,931	-	398	-	-	-	-	14,533	-
LABOR-MANAGEMENT SERVICES ADMIN	2,761	-	-	-	-	-	-	2,761	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	1,300	-	-	-	-	-	-	1,300	-
OFFICE OF THE SECRETARY	2,200	-	-	-	-	-	-	2,200	-
DEPARTMENT OF STATE, TOTAL	49,126	23,997	-	-	411	11,582	911	9,225	3,000
AGENCY FOR INTERNAT'L DEVELOPMENT	46,648	23,997	-	-	-	11,582	911	7,158	3,000
DEPARTMENTAL FUNDS	2,478	-	-	-	411	-	-	2,067	-
DEPARTMENT OF TRANSPORTATION, TOTAL	66,500	2,949	65	-	387	1,832	60,248	1,019	-
COAST GUARD	2,300	-	-	-	374	-	1,895	31	-
FEDERAL AVIATION ADMINISTRATION	6,800	-	-	-	-	-	6,800	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	-	-	-	-	-	4,900	-	-
FEDERAL RAILROAD ADMINISTRATION	9,200	-	-	-	-	34	9,158	8	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,000	2,949	-	-	-	1,798	32,942	311	-
OFFICE OF THE SECRETARY	4,100	-	65	-	13	-	3,353	669	-
RESEARCH & SPECIAL PROGRAMS ADMIN	100	-	-	-	-	-	100	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-

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TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,114	-	-	1,326	-	-	634	380	1,774
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	414	-	-	60	-	-	-	-	354
BUREAU OF ENGRAVING AND PRINTING ...	1,900	-	-	1,266	-	-	634	-	-
INTERNAL REVENUE SERVICE	1,800	-	-	-	-	-	-	380	1,420
OTHER AGENCIES									
ACTION	231	-	-	-	-	-	-	231	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	-	-	-	-	-	-	1,685	-
APPALACHIAN REGIONAL COMMISSION	320	-	-	-	-	-	-	320	-
CIVIL AERONAUTICS BOARD	711	-	-	-	-	-	-	711	-
COMMUNITY SERVICES ADMINISTRATION	1,961	-	-	-	-	-	-	1,961	-
CONSUMER PRODUCT SAFETY COMMISSION ...	917	326	-	-	-	-	291	300	-
ENVIRONMENTAL PROTECTION AGENCY	252,670	78,020	-	70,748	4,769	3,699	92,950	2,484	-
FEDERAL COMMUNICATIONS COMMISSION	2,400	-	-	-	-	83	1,105	1,212	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	4,792	195	9	2,652	-	159	1,777	-	-
FEDERAL HOME LOAN BANK BOARD	977	-	-	-	-	-	-	977	-
FEDERAL TRADE COMMISSION	1,356	-	-	-	-	-	-	1,356	-
GENERAL SERVICES ADMINISTRATION	2,150	-	-	-	-	-	2,011	90	49
INTERNATIONAL COMMUNICATION AGENCY ...	115	-	-	-	-	-	115	-	-
INTERSTATE COMMERCE COMMISSION	250	-	-	-	-	100	-	150	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,345,167	46,698	26,679	264,813	361,571	18,156	624,786	54	2,410
NATIONAL SCIENCE FOUNDATION	743,502	124,885	9,209	195,672	202,303	44,510	89,270	55,124	22,529
NUCLEAR REGULATORY COMMISSION	133,891	-	-	-	-	-	133,891	-	-
OFFICE OF PERSONNEL MANAGEMENT	987	-	987	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	34,896	13,394	-	6,417	2,697	-	-	12,388	-
TENNESSEE VALLEY AUTHORITY	13,500	2,235	-	5,419	-	-	5,789	-	57
US ARMS CONTROL & DISARMAMENT AGENCY .	2,495	-	-	241	285	297	376	1,296	-
US INTERNATIONAL TRADE COMMISSION	3,119	-	-	-	-	-	-	3,119	-
VETERANS ADMINISTRATION	99,400	83,922	10,411	-	-	-	5,067	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	10,889,188	3,896,464	208,032	1,846,921	1,180,003	278,579	2,659,016	560,310	262,863
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	637,513	436,674	107	51,559	15,459	5,190	67,525	80,999	-
ECON, STAT & COOPERATIVES SERVICE	35,900	-	-	-	-	1,580	-	34,320	-
FOREST SERVICE	107,310	67,282	107	8,387	12,731	1,691	12,338	7,776	-
SCIENCE & EDUCATION ADMINISTRATION	494,303	369,392	-	46,172	2,728	1,919	35,187	38,905	-
AGRICULTURAL RESEARCH	320,384	249,192	-	38,227	1,734	1,919	29,740	3,572	-
COOPERATIVE RESEARCH	173,919	124,200	-	7,945	994	-	5,447	35,333	-
DEPARTMENT OF COMMERCE, TOTAL	216,199	52,703	322	37,272	81,964	6,778	27,195	9,918	47
BUREAU OF THE CENSUS	2,724	-	322	-	-	1,848	-	507	47
ECONOMIC DEVELOPMENT ADMINISTRATION	5,900	-	-	-	-	-	-	5,500	-
MARITIME ADMINISTRATION	7,200	-	-	-	-	-	6,740	460	-
NATIONAL BUREAU OF STANDARDS	53,659	-	-	31,143	385	3,508	15,545	3,078	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	144,624	52,703	-	6,129	81,979	1,422	2,618	373	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	-	-	-	-	-	2,492	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,152,731	151,624	55,400	401,346	159,058	148,657	1,078,189	30,439	128,018
DEPARTMENT OF THE ARMY	435,528	81,380	22,646	91,235	23,683	13,234	174,738	25,468	3,244
DEPARTMENT OF THE NAVY	448,100	23,374	13,092	108,694	73,919	36,018	188,312	1,691	-
DEPARTMENT OF THE AIR FORCE	740,930	35,880	13,283	107,380	38,636	55,136	493,615	-	-
DEFENSE AGENCIES	525,973	10,626	6,119	93,257	23,920	43,801	220,224	2,032	123,994
DEFENSE CIVIL PREPAREDNESS AGENCY	5,200	364	260	780	-	468	1,300	1,248	780
DEPARTMENT OF ENERGY, TOTAL	1,183,188	132,418	-	650,733	101,941	9,800	239,854	3,000	25,442
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,141,524	2,594,995	99,570	66,619	-	11,541	47,128	240,872	80,799
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	216,892	118,797	67,862	837	-	1,231	249	27,843	73
CENTER FOR DISEASE CONTROL	67,978	67,978	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	61,967	61,967	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	32,500	-	-	-	-	-	-	32,500	-
HEALTH RESOURCES ADMINISTRATION	1,100	-	-	-	-	-	-	1,100	-
HEALTH SERVICES ADMINISTRATION	10,187	9,887	-	-	-	-	-	-	300
HUMAN DEVELOPMENT SERVICES	82,468	15,700	2,692	-	-	-	6,370	27,706	-
NATIONAL INSTITUTE OF EDUCATION	42,500	-	-	-	-	-	-	42,500	-
NATIONAL INSTITUTES OF HEALTH	2,561,802	2,320,666	29,016	65,782	-	10,310	40,509	15,093	80,426
OFFICE OF ASST'Y SECY FOR EDUC	1,288	-	-	-	-	-	-	1,288	-
OFFICE OF ASST'Y SECY FOR HEALTH	33,172	-	-	-	-	-	-	33,172	-
OFFICE OF EDUCATION	18,470	-	-	-	-	-	-	18,470	-
OFFICE OF THE SECRETARY	25,000	-	-	-	-	-	-	25,000	-
SOCIAL SECURITY ADMINISTRATION	16,200	-	-	-	-	-	-	16,200	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	31,821	-	-	-	-	-	1,811	30,010	-
DEPARTMENT OF THE INTERIOR, TOTAL	376,683	74,327	378	19,632	185,376	8,930	79,139	9,816	1,090
BUREAU OF LAND MANAGEMENT	1,121	889	-	-	160	-	-	72	-
BUREAU OF MINES	90,400	-	-	7,250	11,228	5,075	66,850	-	-
BUREAU OF RECLAMATION	11,049	266	-	-	8,735	-	1,905	110	33
GEOLOGICAL SURVEY	174,031	-	-	11,462	154,052	3,545	4,872	100	-
NATIONAL PARK SERVICE	8,085	4,122	-	-	647	-	-	3,234	82
OFFICE OF THE SECRETARY	3,517	-	-	-	2,000	-	1,517	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	280	-	-	3,885	150	825	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	16,100	3,450	375	920	4,750	160	3,170	2,300	975
US FISH & WILDLIFE SERVICE	68,400	65,400	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	32,987	600	4,576	-	-	150	1,781	25,880	-
BUREAU OF PRISONS	1,461	-	-	-	-	-	-	1,461	-
DRUG ENFORCEMENT ADMINISTRATION	1,200	-	200	-	-	-	1,000	-	-
IMMIGRATION & NATURALIZATION SVC	281	-	-	-	-	-	281	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	28,600	600	4,376	-	-	150	500	22,974	-
OFFICE OF THE ATTORNEY GENERAL	1,445	-	-	-	-	-	-	1,445	-
DEPARTMENT OF LABOR, TOTAL	32,201	-	345	-	-	-	-	31,856	-
BUREAU OF LABOR STATISTICS	912	-	-	-	-	-	-	912	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,813	-	-	-	-	-	-	5,813	-
EMPLOYMENT & TRAINING ADMIN	14,947	-	345	-	-	-	-	14,602	-
LABOR-MANAGEMENT SERVICES ADMIN	3,183	-	-	-	-	-	-	3,183	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	800	-	-	-	-	-	-	800	-
DEPARTMENT OF STATE, TOTAL	78,879	55,083	299	-	556	9,245	-	12,751	945
AGENCY FOR INTERNAT'L DEVELOPMENT	76,329	55,083	299	-	-	9,245	-	10,753	945
DEPARTMENTAL FUNDS	2,554	-	-	-	556	-	-	1,998	-
DEPARTMENT OF TRANSPORTATION, TOTAL	77,300	2,996	-	-	2,515	1,859	67,811	2,119	-
COAST GUARD	6,200	-	-	-	1,009	-	5,112	79	-
FEDERAL AVIATION ADMINISTRATION	9,000	-	-	-	-	-	9,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	-	-	-	-	-	5,600	-	-
FEDERAL RAILROAD ADMINISTRATION	8,800	-	-	-	-	32	8,457	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,600	2,996	-	-	-	1,827	33,653	324	-
OFFICE OF THE SECRETARY	3,600	-	-	-	-	-	1,895	1,705	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,800	-	-	-	1,506	-	3,294	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	-	-	1,000	-	-

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TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,794	-	-	1,495	-	-	685	-	2,614
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	494	-	-	80	-	-	-	-	414
BUREAU OF ENGRAVING AND PRINTING ...	2,100	-	-	1,415	-	-	685	-	-
INTERNAL REVENUE SERVICE	2,200	-	-	-	-	-	-	-	2,200
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,703	-	-	-	-	-	-	1,703	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	830	-	-	-	-	-	-	830	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,800	3,357	-	-	-	-	443	-	-
ENVIRONMENTAL PROTECTION AGENCY	267,254	85,986	-	74,838	5,400	4,000	94,530	2,500	-
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	-	-	-	85	1,500	1,815	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	4,988	292	-	2,933	-	199	1,564	-	-
FEDERAL HOME LOAN BANK BOARD	1,210	-	-	-	-	-	-	1,210	-
FEDERAL TRADE COMMISSION	1,521	-	-	-	-	-	-	1,521	-
GENERAL SERVICES ADMINISTRATION	739	-	-	-	-	-	672	-	67
INTERNATIONAL COMMUNICATION AGENCY ...	164	-	-	-	-	-	164	-	-
INTERSTATE COMMERCE COMMISSION	265	-	-	-	-	120	-	145	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,495,102	52,288	23,621	310,016	409,721	19,993	676,763	100	2,600
NATIONAL SCIENCE FOUNDATION	811,069	139,410	11,480	216,702	214,867	48,698	101,721	57,685	20,506
NUCLEAR REGULATORY COMMISSION	151,580	-	-	-	-	-	151,580	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,024	-	1,024	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	37,292	14,742	-	6,944	2,925	-	-	12,681	-
TENNESSEE VALLEY AUTHORITY	23,439	2,466	-	6,038	-	-	14,700	-	235
US ARMS CONTROL & DISARMAMENT AGENCY .	3,076	-	-	794	223	334	150	1,575	-
US INTERNATIONAL TRADE COMMISSION	3,285	-	-	-	-	-	-	3,285	-
VETERANS ADMINISTRATION	111,527	96,503	10,913	-	-	-	4,111	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	11,593,309	3,992,956	228,791	2,063,632	1,288,505	315,519	2,795,016	575,425	333,465
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	635,751	438,178	101	50,496	14,555	5,203	45,594	81,624	-
ECON, STAT & COOPERATIVES SERVICE	39,800	-	-	-	-	1,751	-	38,049	-
FOREST SERVICE	100,410	62,954	101	5,039	11,913	1,582	11,545	7,276	-
SCIENCE & EDUCATION ADMINISTRATION	495,541	375,224	-	45,457	2,642	1,870	34,049	36,299	-
AGRICULTURAL RESEARCH	317,700	243,636	-	38,065	1,717	1,870	28,982	3,430	-
COOPERATIVE RESEARCH	177,841	131,588	-	7,392	925	-	5,067	32,869	-
DEPARTMENT OF COMMERCE, TOTAL	228,193	53,659	364	41,252	93,504	7,092	27,731	4,538	53
BUREAU OF THE CENSUS	3,158	-	364	-	-	2,178	-	563	53
ECONOMIC DEVELOPMENT ADMINISTRATION	2,500	-	-	-	-	-	-	2,500	-
MARITIME ADMINISTRATION	6,100	-	-	-	-	-	5,730	370	-
NATIONAL BUREAU OF STANDARDS	57,430	-	-	35,754	388	3,541	16,642	1,105	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	155,965	53,659	-	5,498	93,116	1,373	2,299	-	-
NAT'L TELECOMM & INFORMATION ADMIN	3,060	-	-	-	-	-	3,060	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,412,545	163,568	65,207	452,348	178,829	165,424	1,183,827	37,635	165,707
DEPARTMENT OF THE ARMY	502,795	87,162	28,162	98,387	25,481	14,904	216,254	29,107	3,298
DEPARTMENT OF THE NAVY	448,100	24,934	13,407	108,375	73,788	37,220	188,740	1,636	-
DEPARTMENT OF THE AIR FORCE	805,600	39,610	15,850	105,998	39,830	56,688	547,624	-	-
DEFENSE AGENCIES	645,190	11,099	7,243	137,953	39,730	55,631	228,484	4,276	160,774
DEFENSE CIVIL PREPAREDNESS AGENCY	10,900	763	545	1,635	-	981	2,725	2,616	1,635
DEPARTMENT OF ENERGY, TOTAL	1,267,947	147,063	-	717,152	111,256	13,100	223,639	3,000	52,737
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,217,409	2,632,367	114,575	66,972	-	11,820	46,368	264,476	80,831
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	258,411	141,373	81,432	1,043	-	1,498	289	32,620	156
CENTER FOR DISEASE CONTROL	81,572	81,572	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,287	64,287	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	51,300	-	-	-	-	-	-	51,300	-
HEALTH SERVICES ADMINISTRATION	7,917	7,717	-	-	-	-	-	-	200
HUMAN DEVELOPMENT SERVICES	49,440	13,643	2,340	-	-	-	5,536	27,921	-
NATIONAL INSTITUTE OF EDUCATION	45,500	-	-	-	-	-	-	45,500	-
NATIONAL INSTITUTES OF HEALTH	2,566,940	2,323,775	30,803	65,929	-	10,322	40,543	15,093	80,475
OFFICE OF ASST'T SECY FOR EDUC	1,486	-	-	-	-	-	-	1,486	-
OFFICE OF ASST'T SECY FOR HEALTH	28,725	-	-	-	-	-	-	28,725	-
OFFICE OF EDUCATION	18,316	-	-	-	-	-	-	18,316	-
OFFICE OF THE SECRETARY	24,715	-	-	-	-	-	-	24,715	-
SOCIAL SECURITY ADMINISTRATION	18,800	-	-	-	-	-	-	18,800	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	27,777	-	-	-	-	-	3,077	24,700	-
DEPARTMENT OF THE INTERIOR, TOTAL	369,390	75,340	375	22,226	180,277	9,244	74,836	5,933	1,159
BUREAU OF LAND MANAGEMENT	1,007	832	-	-	100	-	-	75	-
BUREAU OF MINES	78,500	-	-	5,950	9,750	4,900	57,900	-	-
BUREAU OF RECLAMATION	10,990	309	-	-	8,056	-	2,363	168	94
GEOLOGICAL SURVEY	178,180	-	-	15,356	152,111	4,034	6,679	-	-
NATIONAL PARK SERVICE	8,489	4,329	-	-	680	-	-	3,390	90
OFFICE OF THE SECRETARY	2,424	-	-	-	1,000	-	1,424	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	-	-	3,830	150	800	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	18,600	3,450	375	920	4,750	160	5,670	2,300	975
US FISH & WILDLIFE SERVICE	66,220	66,220	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	26,038	150	2,376	-	-	150	1,500	21,862	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	200	-	-	-	800	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	23,128	150	2,176	-	-	150	500	20,152	-
OFFICE OF THE ATTORNEY GENERAL	1,710	-	-	-	-	-	-	1,710	-
DEPARTMENT OF LABOR, TOTAL	32,770	-	340	-	-	-	-	32,430	-
BUREAU OF LABOR STATISTICS	864	-	-	-	-	-	-	864	-
EMPLOYMENT STANDARDS ADMINISTRATION	7,056	-	-	-	-	-	-	7,056	-
EMPLOYMENT & TRAINING ADMIN	14,352	-	340	-	-	-	-	14,012	-
LABOR-MANAGEMENT SERVICES ADMIN	3,152	-	-	-	-	-	-	3,152	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	800	-	-	-	-	-	-	800	-
DEPARTMENT OF STATE, TOTAL	74,216	44,818	269	-	376	18,375	-	7,120	3,258
AGENCY FOR INTERNAT'L DEVELOPMENT	72,441	44,818	269	-	-	18,375	-	5,721	3,258
DEPARTMENTAL FUNDS	1,775	-	-	-	376	-	-	1,399	-
DEPARTMENT OF TRANSPORTATION, TOTAL	67,300	2,452	-	-	2,535	1,523	59,238	1,552	-
COAST GUARD	7,100	-	-	-	1,155	-	5,852	93	-
FEDERAL AVIATION ADMINISTRATION	7,800	-	-	-	-	-	7,800	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	-	-	-	-	-	5,400	-	-
FEDERAL RAILROAD ADMINISTRATION	7,500	-	-	-	-	28	7,462	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	31,600	2,452	-	-	-	1,495	27,388	265	-
OFFICE OF THE SECRETARY	2,500	-	-	-	-	-	1,316	1,184	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,400	-	-	-	1,380	-	3,020	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	-	-	1,000	-	-

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TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

* CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,956	-	-	1,437	-	-	623	-	2,896
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	1,900	-	-	1,277	-	-	623	-	-
CUSTOMS SERVICE	110	-	-	110	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,600	-	-	-	-	-	-	-	2,600
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,683	-	-	-	-	-	-	1,683	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	730	-	-	-	-	-	-	730	-
COMMUNITY SERVICES ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	1,865	-	-	-	-	235	-	-
ENVIRONMENTAL PROTECTION AGENCY	314,303	105,183	-	92,200	6,700	6,000	101,720	2,500	-
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	-	-	-	85	1,500	1,815	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	3,894	82	-	2,068	-	196	1,548	-	-
FEDERAL HOME LOAN BANK BOARD	1,325	-	-	-	-	-	-	1,325	-
FEDERAL TRADE COMMISSION	1,312	-	-	-	-	-	-	1,312	-
GENERAL SERVICES ADMINISTRATION	1,488	-	-	-	-	-	1,417	-	71
INTERNATIONAL COMMUNICATION AGENCY ...	140	-	-	-	-	-	140	-	-
INTERSTATE COMMERCE COMMISSION	300	-	-	-	-	120	-	180	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,636,992	55,565	19,991	362,106	461,555	23,118	711,857	100	2,700
NATIONAL SCIENCE FOUNDATION	901,085	159,745	12,491	241,274	235,604	53,869	114,296	60,426	23,380
NUCLEAR REGULATORY COMMISSION	176,270	-	-	-	-	-	176,270	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,254	-	1,254	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	39,330	15,900	-	7,435	3,109	-	-	12,886	-
TENNESSEE VALLEY AUTHORITY	24,500	2,773	-	6,236	-	-	15,318	-	173
US ARMS CONTROL & DISARMAMENT AGENCY .	2,875	-	-	430	205	200	390	1,350	-
US INTERNATIONAL TRADE COMMISSION	3,648	-	-	-	-	-	-	3,648	-
VETERANS ADMINISTRATION	109,588	94,248	11,448	-	-	-	3,892	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	192,527	68,048	73,870	50,609	3,430,134	1,497,190	185,133	350,795	1,280,852	116,164
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	101	-	101	-	403,820	51,044	45,118	297,728	6,445	3,485
FOREST SERVICE	101	-	101	-	63,107	26,082	37,025	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	340,713	24,962	8,093	297,728	6,445	3,485
AGRICULTURAL RESEARCH	-	-	-	-	227,848	9,992	8,093	206,278	-	3,485
COOPERATIVE RESEARCH	-	-	-	-	112,865	14,970	-	91,450	6,445	-
DEPARTMENT OF COMMERCE, TOTAL	263	-	263	-	48,347	-	-	48,347	-	-
BUREAU OF THE CENSUS	263	-	263	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	48,347	-	-	48,347	-	-
DEPARTMENT OF DEFENSE, TOTAL	53,375	2,164	38,154	13,057	140,606	48,261	4,616	280	82,968	4,481
DEPARTMENT OF THE ARMY	21,552	698	18,939	1,915	79,128	11,966	1,222	180	65,640	120
DEPARTMENT OF THE NAVY	10,989	-	10,989	-	21,763	8,119	1,146	-	11,999	499
DEPARTMENT OF THE AIR FORCE	13,682	700	6,349	6,633	30,207	23,251	1,939	100	4,207	710
DEFENSE AGENCIES	6,797	766	1,522	4,509	8,950	4,925	-	-	873	3,152
DEFENSE CIVIL PREPAREDNESS AGENCY	355	-	355	-	558	-	309	-	249	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	135,116	96,019	-	2,000	6,000	31,097
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	85,328	34,409	25,331	25,588	2,262,801	1,116,522	-	-	1,078,523	67,756
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	57,316	34,409	22,652	255	94,137	63,538	-	-	16,019	14,580
CENTER FOR DISEASE CONTROL	-	-	-	-	60,084	-	-	-	60,084	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,134	50,612	-	-	13,522	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	10,316	-	-	-	10,316	-
HUMAN DEVELOPMENT SERVICES	2,679	-	2,679	-	15,619	-	-	-	15,619	-
NATIONAL INSTITUTES OF HEALTH	25,333	-	-	25,333	2,018,511	1,002,372	-	-	962,963	53,176
DEPARTMENT OF THE INTERIOR, TOTAL	350	-	350	-	62,423	46,275	15,265	758	75	50
BUREAU OF LAND MANAGEMENT	-	-	-	-	809	114	95	600	-	-
BUREAU OF RECLAMATION	-	-	-	-	306	306	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,840	-	4,840	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	158	-	-	158	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	350	-	2,140	2,015	-	-	75	50
US FISH & WILDLIFE SERVICE	-	-	-	-	54,170	43,840	10,330	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	5,352	-	4,352	1,000	400	-	-	-	400	-
DRUG ENFORCEMENT ADMINISTRATION	100	-	-	100	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	5,252	-	4,352	900	400	-	-	-	400	-
DEPARTMENT OF LABOR, TOTAL	398	-	398	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	398	-	398	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	23,997	17,615	-	1,682	600	4,100
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	23,997	17,615	-	1,682	600	4,100
DEPARTMENT OF TRANSPORTATION, TOTAL	65	-	65	-	2,949	-	-	-	2,949	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,949	-	-	-	2,949	-
OFFICE OF THE SECRETARY	65	-	65	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	326	-	-	-	-	326
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	78,020	-	73,580	-	4,440	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9	-	9	-	195	195	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	26,679	15,276	441	10,964	46,698	22,222	-	-	24,476	-
NATIONAL SCIENCE FOUNDATION	9,209	5,838	3,371	-	124,885	82,132	37,884	-	-	4,869
OFFICE OF PERSONNEL MANAGEMENT	987	-	987	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	13,394	4,724	8,670	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,235	2,235	-	-	-	-
VETERANS ADMINISTRATION	10,411	10,363	48	-	83,922	9,946	-	-	73,976	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	208,032	71,359	82,027	54,646	3,896,464	1,698,826	203,163	380,079	1,440,932	173,464
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	107	-	107	-	436,674	57,827	48,859	319,763	7,191	3,034
FOREST SERVICE	107	-	107	-	67,282	27,808	39,474	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	369,392	30,019	9,385	319,763	7,191	3,034
AGRICULTURAL RESEARCH	-	-	-	-	245,192	14,045	9,385	218,728	-	3,034
COOPERATIVE RESEARCH	-	-	-	-	124,200	15,974	-	101,035	7,191	-
DEPARTMENT OF COMMERCE, TOTAL	322	-	322	-	52,703	-	-	52,703	-	-
BUREAU OF THE CENSUS	322	-	322	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	52,703	-	-	52,703	-	-
DEPARTMENT OF DEFENSE, TOTAL	55,400	1,615	41,398	12,387	151,624	52,874	5,012	1,347	86,802	5,589
DEPARTMENT OF THE ARMY	22,646	707	20,298	1,641	81,380	11,887	1,496	200	67,672	125
DEPARTMENT OF THE NAVY	13,092	-	13,092	-	23,374	9,263	1,088	-	12,345	678
DEPARTMENT OF THE AIR FORCE	13,283	300	7,336	5,647	35,880	26,220	2,220	100	6,600	740
DEFENSE AGENCIES	6,119	608	412	5,099	10,626	5,504	-	1,047	29	4,046
DEFENSE CIVIL PREPAREDNESS AGENCY	260	-	260	-	364	-	208	-	156	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	132,418	87,570	355	2,450	6,775	35,268
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	99,570	40,275	30,001	29,294	2,594,995	1,295,262	-	-	1,218,587	81,146
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	67,862	40,275	27,309	278	118,797	79,298	-	-	20,091	19,408
CENTER FOR DISEASE CONTROL	-	-	-	-	67,978	-	-	-	67,978	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	61,967	48,954	-	-	13,013	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	9,887	-	-	-	9,887	-
HUMAN DEVELOPMENT SERVICES	2,692	-	2,692	-	15,700	-	-	-	15,700	-
NATIONAL INSTITUTES OF HEALTH	29,016	-	-	29,016	2,320,666	1,167,010	-	-	1,091,918	61,738
DEPARTMENT OF THE INTERIOR, TOTAL	375	375	-	-	74,327	56,666	16,622	859	105	75
BUREAU OF LAND MANAGEMENT	-	-	-	-	889	130	100	659	-	-
BUREAU OF RECLAMATION	-	-	-	-	266	266	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,122	-	4,122	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	200	-	-	200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	375	375	-	-	3,450	3,270	-	-	105	75
US FISH & WILDLIFE SERVICE	-	-	-	-	65,400	53,000	12,400	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	4,576	-	2,576	2,000	600	-	-	-	600	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	4,376	-	2,576	1,800	600	-	-	-	600	-
DEPARTMENT OF LABOR, TOTAL	345	-	345	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	345	-	345	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	299	-	299	-	55,083	14,510	-	2,957	-	37,616
AGENCY FOR INTERNAT'L DEVELOPMENT	299	-	299	-	55,083	14,510	-	2,957	-	37,616
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	2,996	-	-	-	2,996	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,996	-	-	-	2,996	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	3,357	-	-	-	-	3,357
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	85,986	-	81,486	-	4,500	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	292	292	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	23,621	11,519	1,137	10,965	52,288	22,538	-	-	29,750	-
NATIONAL SCIENCE FOUNDATION	11,480	6,716	4,764	-	139,410	91,096	40,935	-	-	7,379
OFFICE OF PERSONNEL MANAGEMENT	1,024	-	1,024	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	14,742	4,848	9,894	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,466	2,466	-	-	-	-
VETERANS ADMINISTRATION	10,913	10,859	54	-	96,503	12,877	-	-	83,626	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	228,791	77,006	92,266	59,519	3,992,956	1,742,517	227,949	383,111	1,463,836	175,543
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	101	-	101	-	438,178	59,221	46,203	323,082	6,690	2,982
FOREST SERVICE	101	-	101	-	62,954	26,019	36,935	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	375,224	33,202	9,268	323,082	6,690	2,982
AGRICULTURAL RESEARCH	-	-	-	-	243,636	14,123	9,268	217,263	-	2,982
COOPERATIVE RESEARCH	-	-	-	-	131,588	19,079	-	105,819	6,690	-
DEPARTMENT OF COMMERCE, TOTAL	364	-	364	-	53,659	-	-	53,659	-	-
BUREAU OF THE CENSUS	364	-	364	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,659	-	-	53,659	-	-
DEPARTMENT OF DEFENSE, TOTAL	65,207	908	48,203	16,096	163,568	56,446	6,295	300	95,199	5,328
DEPARTMENT OF THE ARMY	28,162	608	25,480	2,074	87,162	11,816	1,825	200	73,221	100
DEPARTMENT OF THE NAVY	13,407	-	13,407	-	24,934	9,234	1,326	-	13,651	723
DEPARTMENT OF THE AIR FORCE	15,850	300	8,771	6,779	39,610	29,502	2,708	100	6,400	900
DEFENSE AGENCIES	7,243	-	-	7,243	11,099	5,894	-	-	1,600	3,605
DEFENSE CIVIL PREPAREDNESS AGENCY	545	-	545	-	763	-	436	-	327	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	147,063	94,680	1,000	2,450	7,244	41,689
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	114,575	50,092	33,353	31,130	2,632,367	1,309,941	-	-	1,232,255	90,171
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	81,432	50,092	31,013	327	141,373	89,405	-	-	23,698	28,270
CENTER FOR DISEASE CONTROL	-	-	-	-	81,572	-	-	-	81,572	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,287	50,787	-	-	13,500	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	7,717	-	-	-	7,717	-
HUMAN DEVELOPMENT SERVICES	2,340	-	2,340	-	13,643	-	-	-	13,643	-
NATIONAL INSTITUTES OF HEALTH	30,803	-	-	30,803	2,323,775	1,169,749	-	-	1,092,125	61,901
DEPARTMENT OF THE INTERIOR, TOTAL	375	-	375	-	75,340	57,329	17,109	722	105	75
BUREAU OF LAND MANAGEMENT	-	-	-	-	832	110	200	522	-	-
BUREAU OF RECLAMATION	-	-	-	-	309	309	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,329	-	4,329	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	200	-	-	200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	375	-	375	-	3,450	3,270	-	-	105	75
US FISH & WILDLIFE SERVICE	-	-	-	-	66,220	53,640	12,580	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,376	-	1,676	700	150	150	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,176	-	1,676	500	150	150	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	340	-	340	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	340	-	340	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	269	-	269	-	44,818	14,510	-	2,898	-	27,410
AGENCY FOR INTERNAT'L DEVELOPMENT	269	-	269	-	44,818	14,510	-	2,898	-	27,410
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	2,452	-	-	-	2,452	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,452	-	-	-	2,452	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,865	-	-	-	-	1,865
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	105,183	-	100,683	-	4,500	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	82	82	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	19,991	7,275	1,123	11,593	55,565	23,688	-	-	31,877	-
NATIONAL SCIENCE FOUNDATION	12,491	7,331	5,160	-	159,745	107,499	46,223	-	-	6,023
OFFICE OF PERSONNEL MANAGEMENT	1,254	-	1,254	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	15,900	5,464	10,436	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,773	2,773	-	-	-	-
VETERANS ADMINISTRATION	11,448	11,400	48	-	94,248	10,734	-	-	83,514	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,683,397	215,603	419,557	965,057	87,180	1,050,245	323,239	336,433	225,545	165,032
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	52,104	-	47,843	4,261	-	14,625	5,810	8,815	-	-
FOREST SERVICE	5,051	-	3,410	1,641	-	11,943	3,507	8,436	-	-
SCIENCE & EDUCATION ADMINISTRATION	47,053	-	44,433	2,620	-	2,682	2,303	379	-	-
AGRICULTURAL RESEARCH	39,932	-	37,312	2,620	-	1,791	1,412	379	-	-
COOPERATIVE RESEARCH	7,121	-	7,121	-	-	891	891	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	32,507	1,458	8,198	22,851	-	71,182	34,931	1,527	34,379	345
NATIONAL BUREAU OF STANDARDS	27,476	595	7,139	19,742	-	256	120	136	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,031	863	1,059	3,109	-	70,926	34,811	1,391	34,379	345
DEPARTMENT OF DEFENSE, TOTAL	358,440	12,511	71,344	202,311	72,274	142,156	51,662	23,258	53,180	14,056
DEPARTMENT OF THE ARMY	84,178	-	30,068	19,096	35,014	17,028	4,730	7,090	295	4,913
DEPARTMENT OF THE NAVY	100,609	7,690	17,825	74,544	550	64,779	5,869	3,413	49,089	6,428
DEPARTMENT OF THE AIR FORCE	94,434	4,821	22,727	66,796	90	36,002	30,640	4,232	-	1,130
DEFENSE AGENCIES	78,112	-	696	40,796	36,620	24,347	10,423	8,523	3,816	1,585
DEFENSE CIVIL PREPAREDNESS AGENCY	1,107	-	28	1,079	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	615,841	-	76,111	539,664	66	90,660	13,890	31,898	12,438	32,434
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	58,311	-	52,472	5,839	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,261	-	1,261	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	57,050	-	51,211	5,839	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	18,906	-	15,239	2,267	1,400	159,199	8,040	132,316	14,215	4,628
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	143	-	143	-	-
BUREAU OF MINES	4,900	-	3,500	-	1,400	6,965	-	4,265	-	2,700
BUREAU OF RECLAMATION	-	-	-	-	-	8,001	7,690	17	294	-
GEOLOGICAL SURVEY	13,156	-	11,104	2,052	-	137,816	-	123,945	13,871	-
NATIONAL PARK SERVICE	-	-	-	-	-	461	-	321	-	140
OFFICE OF THE SECRETARY	-	-	-	-	-	898	-	-	-	898
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	-	955	-	955	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	850	-	635	215	-	3,960	350	2,670	50	890
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	411	-	-	237	174
DEPARTMENTAL FUNDS	-	-	-	-	-	411	-	-	237	174
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	387	5	-	374	8
COAST GUARD	-	-	-	-	-	374	-	-	374	-
OFFICE OF THE SECRETARY	-	-	-	-	-	13	5	-	-	8
DEPARTMENT OF THE TREASURY, TOTAL	1,326	-	309	207	810	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	60	-	30	30	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,266	-	279	177	810	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	70,748	-	67,771	2,977	-	4,769	1,616	2,051	1,102	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,652	-	1,308	1,344	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	264,813	148,603	9,275	94,324	12,611	361,571	135,895	72,435	40,152	113,089
NATIONAL SCIENCE FOUNDATION	195,672	46,614	60,257	88,782	19	202,303	71,228	62,104	68,673	298
SMITHSONIAN INSTITUTION	6,417	6,417	-	-	-	2,697	158	1,792	747	-
TENNESSEE VALLEY AUTHORITY	5,419	-	5,419	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	241	-	11	230	-	285	-	237	48	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,846,921	248,450	431,738	1,068,781	97,952	1,180,003	360,830	370,747	239,668	208,758
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	51,559	-	47,016	4,543	-	19,459	6,117	9,342	-	-
FOREST SERVICE	5,387	-	3,637	1,750	-	12,731	3,738	8,993	-	-
SCIENCE & EDUCATION ADMINISTRATION	46,172	-	43,379	2,793	-	2,728	2,379	349	-	-
AGRICULTURAL RESEARCH	38,227	-	35,434	2,793	-	1,734	1,385	349	-	-
COOPERATIVE RESEARCH	7,945	-	7,945	-	-	994	994	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	37,272	1,704	9,231	26,337	-	81,964	39,940	1,476	40,187	361
NATIONAL BUREAU OF STANDARDS	31,143	662	7,926	22,555	-	385	231	154	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,129	1,042	1,305	3,782	-	81,579	39,709	1,322	40,187	361
DEPARTMENT OF DEFENSE, TOTAL	401,346	14,129	78,045	239,934	69,238	159,058	58,330	23,055	60,093	17,580
DEPARTMENT OF THE ARMY	91,235	-	36,495	22,339	32,401	23,583	10,915	6,284	240	6,144
DEPARTMENT OF THE NAVY	108,694	9,295	16,852	77,959	4,588	73,919	6,259	3,533	55,988	8,139
DEPARTMENT OF THE AIR FORCE	107,380	4,834	23,838	78,688	20	35,636	29,937	4,519	-	1,180
DEFENSE AGENCIES	93,257	-	808	60,220	32,229	25,920	11,219	8,719	3,865	2,117
DEFENSE CIVIL PREPAREDNESS AGENCY	780	-	52	728	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	650,733	-	70,607	576,126	4,000	101,941	16,954	36,896	11,635	36,456
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	66,619	-	59,928	6,691	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	837	-	837	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	65,782	-	59,091	6,691	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	19,632	-	15,369	2,663	1,600	185,374	9,109	192,529	14,345	9,391
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	160	-	160	-	-
BUREAU OF MINES	7,250	-	5,650	-	1,600	11,225	-	8,100	-	3,125
BUREAU OF RECLAMATION	-	-	-	-	-	8,735	8,609	10	116	-
GEOLOGICAL SURVEY	11,462	-	9,034	2,428	-	154,052	-	139,863	14,189	-
NATIONAL PARK SERVICE	-	-	-	-	-	647	-	431	-	216
OFFICE OF THE SECRETARY	-	-	-	-	-	2,000	-	-	-	2,000
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	-	3,805	100	725	-	2,980
OFFICE OF WATER RSCH & TECHNOLOGY	920	-	685	235	-	4,750	400	3,240	40	1,070
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	556	-	-	81	475
DEPARTMENTAL FUNDS	-	-	-	-	-	556	-	-	81	475
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	2,515	1,506	-	1,009	-
COAST GUARD	-	-	-	-	-	1,009	-	-	1,009	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	1,506	1,506	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,495	-	351	238	906	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	80	-	40	40	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,415	-	311	198	906	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	74,838	-	70,038	4,800	-	5,400	1,800	2,400	1,200	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,933	-	1,448	1,485	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	310,016	174,134	7,458	106,231	22,193	409,721	151,103	78,562	38,006	142,050
NATIONAL SCIENCE FOUNDATION	216,702	51,539	66,159	98,989	15	214,867	75,811	64,362	72,249	2,445
SMITHSONIAN INSTITUTION	8,944	8,944	-	-	-	2,925	160	1,955	810	-
TENNESSEE VALLEY AUTHORITY	8,038	-	8,038	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	794	-	50	744	-	223	-	170	53	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,063,632	302,675	479,407	1,148,213	133,337	1,288,505	400,585	383,440	270,466	234,014
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	50,496	-	46,080	4,416	-	14,555	5,800	8,755	-	-
FOREST SERVICE	5,039	-	3,402	1,637	-	11,913	3,498	8,415	-	-
SCIENCE & EDUCATION ADMINISTRATION	45,457	-	42,678	2,779	-	2,642	2,302	340	-	-
AGRICULTURAL RESEARCH	38,065	-	35,286	2,779	-	1,717	1,377	340	-	-
COOPERATIVE RESEARCH	7,392	-	7,392	-	-	925	925	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	41,252	1,772	10,759	28,721	-	93,504	38,175	1,554	53,775	-
NATIONAL BUREAU OF STANDARDS	35,754	819	9,611	25,324	-	388	233	155	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,498	953	1,148	3,397	-	93,116	37,942	1,399	53,775	-
DEPARTMENT OF DEFENSE, TOTAL	452,348	14,472	78,704	251,767	107,405	178,829	64,381	33,634	62,955	17,859
DEPARTMENT OF THE ARMY	98,387	-	35,150	27,259	35,978	25,481	11,739	6,925	360	6,457
DEPARTMENT OF THE NAVY	108,375	9,272	16,861	77,947	4,295	73,788	6,231	3,474	55,990	8,093
DEPARTMENT OF THE AIR FORCE	105,998	5,200	26,330	74,468	-	39,830	33,512	5,188	-	1,130
DEFENSE AGENCIES	137,953	-	254	70,567	67,132	39,730	12,899	18,047	6,605	2,179
DEFENSE CIVIL PREPAREDNESS AGENCY	1,635	-	109	1,526	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	717,152	-	89,352	627,800	-	111,256	12,630	38,582	12,070	47,974
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	66,972	-	60,266	6,706	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,043	-	1,043	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	65,929	-	59,223	6,706	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	22,226	-	17,894	2,732	1,600	180,277	8,471	149,351	14,378	8,077
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	5,950	-	4,350	-	1,600	9,750	-	6,950	-	2,800
BUREAU OF RECLAMATION	-	-	-	-	-	8,056	7,871	15	170	-
GEOLOGICAL SURVEY	15,356	-	12,859	2,497	-	152,111	-	137,943	14,168	-
NATIONAL PARK SERVICE	-	-	-	-	-	680	-	453	-	227
OFFICE OF THE SECRETARY	-	-	-	-	-	1,000	-	-	-	1,000
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	-	3,830	200	650	-	2,980
OFFICE OF WATER RSCH & TECHNOLOGY	920	-	685	235	-	4,750	400	3,240	40	1,070
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	376	-	-	57	319
DEPARTMENTAL FUNDS	-	-	-	-	-	376	-	-	57	319
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	2,535	1,380	-	1,155	-
COAST GUARD	-	-	-	-	-	1,155	-	-	1,155	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	1,380	1,380	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,437	-	306	314	817	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,277	-	281	179	817	-	-	-	-	-
CUSTOMS SERVICE	110	-	-	110	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	92,200	-	86,500	5,700	-	6,700	2,700	2,500	1,500	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,068	-	1,099	969	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	362,106	222,084	7,992	108,535	23,495	461,555	184,546	76,896	43,173	156,940
NATIONAL SCIENCE FOUNDATION	241,274	56,912	74,189	110,153	20	235,604	82,340	69,907	80,512	2,845
SMITHSONIAN INSTITUTION	7,435	7,435	-	-	-	3,109	162	2,086	861	-
TENNESSEE VALLEY AUTHORITY	6,236	-	6,236	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	430	-	30	400	-	205	-	175	30	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	ENGINEERING							
		AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,445,914	482,107	176,954	152,649	145,642	461,754	274,888	294,637	457,283
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	44,599	-	-	3,656	6,503	257	2,421	-	31,762
FOREST SERVICE	11,572	-	-	1,145	2,709	101	1,302	-	6,315
SCIENCE & EDUCATION ADMINISTRATION	33,027	-	-	2,511	3,794	156	1,119	-	25,447
AGRICULTURAL RESEARCH	28,145	-	-	2,511	3,794	156	1,119	-	20,565
COOPERATIVE RESEARCH	4,882	-	-	-	-	-	-	-	4,882
DEPARTMENT OF COMMERCE, TOTAL	24,838	20	-	389	6,284	4,634	1,938	2,295	9,278
MARITIME ADMINISTRATION	6,570	-	-	-	3,519	657	657	-	1,737
NATIONAL BUREAU OF STANDARDS	15,062	20	-	389	1,851	1,717	1,281	2,295	7,509
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,121	-	-	-	914	1,175	-	-	32
NAT'L TELECOMM & INFORMATION ADMIN	1,085	-	-	-	-	1,085	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,023,111	158,569	41,545	32,229	26,659	374,272	198,442	97,574	93,821
DEPARTMENT OF THE ARMY	181,427	26,241	800	8,808	15,027	74,638	25,656	13,821	16,436
DEPARTMENT OF THE NAVY	172,727	15,906	4,032	9,350	4,431	44,055	34,661	23,916	36,376
DEPARTMENT OF THE AIR FORCE	462,719	100,568	20,414	11,662	1,911	158,089	121,068	41,963	7,044
DEFENSE AGENCIES	204,322	15,854	16,299	2,409	4,585	97,177	16,864	17,874	33,260
DEFENSE CIVIL PREPAREDNESS AGENCY	1,916	-	-	-	705	313	193	-	705
DEPARTMENT OF ENERGY, TOTAL	230,756	-	-	41,953	4,114	17,570	1,286	90,622	75,211
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	42,832	-	-	-	-	-	-	-	42,832
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	209	-	-	-	-	-	-	-	209
HUMAN DEVELOPMENT SERVICES	6,338	-	-	-	-	-	-	-	6,338
NATIONAL INSTITUTES OF HEALTH	36,285	-	-	-	-	-	-	-	36,285
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	2,639	-	-	-	-	-	-	-	2,639
DEPARTMENT OF THE INTERIOR, TOTAL	56,829	-	-	4,946	14,315	1,313	5,564	28,315	2,376
BUREAU OF MINES	42,285	-	-	4,600	4,400	850	4,200	27,885	350
BUREAU OF RECLAMATION	2,107	-	-	26	1,831	250	-	-	-
GEOLOGICAL SURVEY	6,038	-	-	-	4,522	125	710	-	681
OFFICE OF THE SECRETARY	829	-	-	-	117	58	654	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	595	-	-	-	245	-	-	350	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,975	-	-	320	3,200	30	-	80	1,345
DEPARTMENT OF JUSTICE, TOTAL	1,089	-	-	-	-	589	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SVC	189	-	-	-	-	189	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF STATE, TOTAL	911	-	-	-	-	-	-	-	911
AGENCY FOR INTERNAT'L DEVELOPMENT	911	-	-	-	-	-	-	-	911
DEPARTMENT OF TRANSPORTATION, TOTAL	60,248	2,711	442	-	44,302	1,949	8,263	254	2,327
COAST GUARD	1,895	-	-	-	1,237	234	424	-	-
FEDERAL AVIATION ADMINISTRATION	6,800	976	442	-	4,442	940	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	-	-	-	4,594	-	-	254	52
FEDERAL RAILROAD ADMINISTRATION	9,158	-	-	-	3,431	775	2,677	-	2,275
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	32,942	-	-	-	27,780	-	5,162	-	-
OFFICE OF THE SECRETARY	3,353	1,735	-	-	1,618	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	100	-	-	-	100	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	634	-	-	-	-	-	-	559	75
BUREAU OF ENGRAVING AND PRINTING	634	-	-	-	-	-	-	559	75
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	291	-	-	-	-	-	-	-	291
ENVIRONMENTAL PROTECTION AGENCY	92,950	-	-	39,828	33,673	7,780	11,669	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,105	-	-	-	-	1,105	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,777	-	-	261	93	181	841	-	401
GENERAL SERVICES ADMINISTRATION	2,011	-	-	1,300	99	250	-	-	362
INTERNATIONAL COMMUNICATION AGENCY	115	-	-	-	-	115	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	624,786	320,100	134,967	18,200	1,574	26,370	37,002	58,916	27,657
NATIONAL SCIENCE FOUNDATION	89,270	707	-	9,847	8,026	20,494	7,391	16,102	26,703
NUCLEAR REGULATORY COMMISSION	133,691	-	-	-	-	-	-	-	133,891
TENNESSEE VALLEY AUTHORITY	5,789	-	-	-	-	4,779	71	-	939
US ARMS CONTROL & DISARMAMENT AGENCY	376	-	-	40	-	96	-	-	240
VETERANS ADMINISTRATION	5,067	-	-	-	-	-	-	-	5,067

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	ENGINEERING							
		AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,659,016	537,475	174,729	136,675	183,790	494,117	313,527	323,851	494,852
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	47,529	-	-	4,341	5,975	203	2,327	-	34,679
FOREST SERVICE	12,338	-	-	1,222	2,889	107	1,388	-	6,732
SCIENCE & EDUCATION ADMINISTRATION	35,187	-	-	3,119	3,086	96	939	-	27,947
AGRICULTURAL RESEARCH	29,740	-	-	3,119	3,086	96	939	-	22,500
COOPERATIVE RESEARCH	5,447	-	-	-	-	-	-	-	5,447
DEPARTMENT OF COMMERCE, TOTAL	27,195	30	-	1,049	6,718	7,000	2,384	2,716	7,298
MARITIME ADMINISTRATION	6,740	-	-	-	3,678	674	674	-	1,714
NATIONAL BUREAU OF STANDARDS	15,545	30	-	1,049	2,054	2,402	1,710	2,716	5,584
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,418	-	-	-	986	1,432	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	-	-	-	-	2,492	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,078,189	172,698	46,573	35,548	28,102	383,964	211,970	103,338	95,996
DEPARTMENT OF THE ARMY	174,738	20,039	907	10,462	16,995	68,800	28,134	14,945	14,836
DEPARTMENT OF THE NAVY	188,312	17,762	2,752	11,324	4,271	49,270	37,343	23,549	42,041
DEPARTMENT OF THE AIR FORCE	493,615	109,155	22,329	11,440	2,310	171,030	126,019	42,152	9,180
DEFENSE AGENCIES	220,224	25,742	20,585	2,322	4,458	94,656	20,318	22,692	29,451
DEFENSE CIVIL PREPAREDNESS AGENCY	1,300	-	-	-	68	208	156	-	468
DEPARTMENT OF ENERGY, TOTAL	259,854	-	-	15,900	33,265	28,073	13,935	93,649	75,032
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	47,128	-	-	-	-	-	-	-	47,128
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	249	-	-	-	-	-	-	-	249
HUMAN DEVELOPMENT SERVICES	6,370	-	-	-	-	-	-	-	6,370
NATIONAL INSTITUTES OF HEALTH	40,509	-	-	-	-	-	-	-	40,509
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	1,811	-	-	-	-	-	-	-	1,811
DEPARTMENT OF THE INTERIOR, TOTAL	79,139	-	-	5,795	13,983	1,352	8,672	47,235	2,102
BUREAU OF MINES	66,850	-	-	5,475	6,725	875	6,825	46,350	400
BUREAU OF RECLAMATION	1,905	-	-	20	1,553	212	120	-	-
GEOLOGICAL SURVEY	4,872	-	-	-	3,665	130	520	-	557
OFFICE OF THE SECRETARY	1,517	-	-	-	210	100	1,207	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	825	-	-	-	250	-	-	575	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,170	-	-	300	1,580	35	-	110	1,145
DEPARTMENT OF JUSTICE, TOTAL	1,781	-	-	-	-	1,281	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	-	-	-	1,000	-	-	-
IMMIGRATION & NATURALIZATION SVC	281	-	-	-	-	281	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF TRANSPORTATION, TOTAL	67,811	1,289	584	-	50,675	2,593	10,213	296	2,161
COAST GUARD	5,112	-	-	-	3,337	630	1,145	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	1,289	584	-	5,880	1,247	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	-	-	-	5,243	-	-	296	61
FEDERAL RAILROAD ADMINISTRATION	8,457	-	-	-	3,169	716	2,472	-	2,100
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,453	-	-	-	28,210	-	5,243	-	-
OFFICE OF THE SECRETARY	1,895	-	-	-	1,895	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,294	-	-	-	1,941	-	1,353	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	1,000	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	685	-	-	-	-	-	-	605	80
BUREAU OF ENGRAVING AND PRINTING	685	-	-	-	-	-	-	605	80
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	443	-	-	-	-	-	-	-	443
ENVIRONMENTAL PROTECTION AGENCY	94,530	-	-	41,900	34,900	9,400	8,330	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,500	-	-	-	-	1,500	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,564	-	-	187	86	145	784	-	362
GENERAL SERVICES ADMINISTRATION	672	-	-	-	82	540	-	-	50
INTERNATIONAL COMMUNICATION AGENCY	164	-	-	-	-	164	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	676,763	362,687	127,572	21,164	1,396	29,117	46,750	55,198	32,879
NATIONAL SCIENCE FOUNDATION	101,721	771	-	10,741	8,608	21,575	8,076	20,814	31,136
NUCLEAR REGULATORY COMMISSION	151,580	-	-	-	-	-	-	-	151,580
TENNESSEE VALLEY AUTHORITY	14,700	-	-	-	-	7,160	86	-	7,454
US ARMS CONTROL & DISARMAMENT AGENCY	150	-	-	50	-	50	-	-	50
VETERANS ADMINISTRATION	4,111	-	-	-	-	-	-	-	4,111

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,795,016	991,304	175,287	153,824	165,356	558,722	292,697	326,646	531,180
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	45,594	-	-	4,146	5,729	194	2,214	-	33,311
FOREST SERVICE	11,545	-	-	1,144	2,703	100	1,299	-	6,299
SCIENCE & EDUCATION ADMINISTRATION	34,049	-	-	3,002	3,026	94	915	-	27,012
AGRICULTURAL RESEARCH	28,982	-	-	3,002	3,026	94	915	-	21,945
COOPERATIVE RESEARCH	5,067	-	-	-	-	-	-	-	5,067
DEPARTMENT OF COMMERCE, TOTAL	27,731	30	-	1,059	6,131	8,347	1,726	3,041	7,397
MARITIME ADMINISTRATION	5,730	-	-	-	3,051	573	573	-	1,533
NATIONAL BUREAU OF STANDARDS	16,642	30	-	1,059	2,073	3,422	1,153	3,041	5,864
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,299	-	-	-	1,007	1,292	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	3,060	-	-	-	-	3,060	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,183,827	193,316	42,272	37,642	41,424	454,627	202,035	108,791	103,720
DEPARTMENT OF THE ARMY	216,254	30,565	938	8,482	19,121	90,011	29,927	16,628	20,582
DEPARTMENT OF THE NAVY	188,740	17,790	2,800	11,056	4,149	49,196	36,910	23,598	43,241
DEPARTMENT OF THE AIR FORCE	547,624	126,605	25,250	15,890	11,160	199,251	116,424	41,544	11,500
DEFENSE AGENCIES	228,484	18,356	13,284	2,214	6,013	115,733	18,447	27,021	27,416
DEFENSE CIVIL PREPAREDNESS AGENCY	2,725	-	-	-	981	436	327	-	981
DEPARTMENT OF ENERGY, TOTAL	223,639	-	-	26,584	5,000	14,330	2,000	97,181	78,544
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	46,368	-	-	-	-	-	-	-	46,368
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	289	-	-	-	-	-	-	-	289
HUMAN DEVELOPMENT SERVICES	5,536	-	-	-	-	-	-	-	5,536
NATIONAL INSTITUTES OF HEALTH	40,543	-	-	-	-	-	-	-	40,543
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	3,077	-	-	-	-	-	-	-	3,077
DEPARTMENT OF THE INTERIOR, TOTAL	74,836	-	-	5,155	15,999	934	6,976	43,670	2,102
BUREAU OF MINES	57,900	-	-	4,750	4,400	400	4,900	43,050	400
BUREAU OF RECLAMATION	2,363	-	-	30	1,923	400	10	-	-
GEOLOGICAL SURVEY	6,679	-	-	-	5,182	-	940	-	557
OFFICE OF THE SECRETARY	1,424	-	-	-	199	99	1,126	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	800	-	-	-	300	-	-	500	-
OFFICE OF WATER RSCH & TECHNOLOGY	5,670	-	-	375	3,995	35	-	120	1,145
DEPARTMENT OF JUSTICE, TOTAL	1,500	-	-	-	-	1,000	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	-	-	800	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF TRANSPORTATION, TOTAL	59,238	1,117	507	-	43,961	2,433	9,025	284	1,911
COAST GUARD	5,852	-	-	-	3,820	721	1,311	-	-
FEDERAL AVIATION ADMINISTRATION	7,800	1,117	507	-	5,096	1,080	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	-	-	-	5,058	-	-	284	58
FEDERAL RAILROAD ADMINISTRATION	7,462	-	-	-	2,796	632	2,181	-	1,853
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	27,388	-	-	-	23,095	-	4,293	-	-
OFFICE OF THE SECRETARY	1,316	-	-	-	1,316	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,020	-	-	-	1,780	-	1,240	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	1,000	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	623	-	-	-	-	-	-	550	73
BUREAU OF ENGRAVING AND PRINTING	623	-	-	-	-	-	-	550	73
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	235	-	-	-	-	-	-	-	235
ENVIRONMENTAL PROTECTION AGENCY	101,720	-	-	45,100	37,300	10,700	8,620	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,500	-	-	-	-	1,500	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,548	-	-	184	84	143	780	-	357
GENERAL SERVICES ADMINISTRATION	1,417	-	-	-	192	1,225	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	140	-	-	-	-	140	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	711,857	395,967	132,508	21,774	50	30,163	50,091	48,861	32,443
NATIONAL SCIENCE FOUNDATION	114,296	874	-	12,180	9,486	24,921	9,141	24,268	33,426
NUCLEAR REGULATORY COMMISSION	176,270	-	-	-	-	-	-	-	176,270
TENNESSEE VALLEY AUTHORITY	15,318	-	-	-	-	7,925	89	-	7,304
US ARMS CONTROL & DISARMAMENT AGENCY	390	-	-	-	-	140	-	-	250
VETERANS ADMINISTRATION	3,892	-	-	-	-	-	-	-	3,892

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES, NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	235,552	92,044	131,605	11,903	506,876	19,526	163,846	8,816	60,313	254,375
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,713	4,713	-	-	74,522	15	68,317	-	4,883	1,307
ECON, STAT & COOPERATIVES SERVICE	1,439	1,439	-	-	31,261	-	29,390	-	1,177	694
FOREST SERVICE	1,585	1,585	-	-	7,294	-	5,389	-	1,905	-
SCIENCE & EDUCATION ADMINISTRATION	1,689	1,689	-	-	35,967	15	33,538	-	1,801	613
AGRICULTURAL RESEARCH	1,689	1,689	-	-	4,302	15	3,549	-	125	613
COOPERATIVE RESEARCH	-	-	-	-	31,665	-	29,989	-	1,676	-
DEPARTMENT OF COMMERCE, TOTAL	5,273	4,226	1,047	-	10,323	-	10,114	-	209	-
BUREAU OF THE CENSUS	1,569	1,376	193	-	460	-	251	-	209	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	5,912	-	5,912	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	430	-	430	-	-	-
NATIONAL BUREAU OF STANDARDS	2,489	2,302	187	-	3,241	-	3,241	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,215	548	667	-	280	-	280	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	120,766	26,684	84,626	9,456	22,612	-	1,082	2,003	2,783	16,744
DEPARTMENT OF THE ARMY	10,420	4,862	5,558	-	17,802	-	284	-	774	16,744
DEPARTMENT OF THE NAVY	29,793	7,033	22,085	675	1,340	-	-	-	1,340	-
DEPARTMENT OF THE AIR FORCE	48,683	11,735	34,868	2,080	-	-	-	-	-	-
DEFENSE AGENCIES	31,225	2,409	22,115	6,701	1,686	-	-	1,686	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	645	645	-	-	1,784	-	798	317	669	-
DEPARTMENT OF ENERGY, TOTAL	7,698	4,809	2,889	-	325	-	120	-	205	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	10,190	10,034	156	-	208,398	3,409	22,824	320	31,753	150,092
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,020	864	156	-	24,704	3,409	283	172	18,278	2,562
HEALTH CARE FINANCING ADMIN	-	-	-	-	19,400	-	-	-	-	19,400
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	5,000	-	-	-	-	5,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	20,525	-	196	-	2,380	17,949
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	34,616	-	-	-	-	34,616
NATIONAL INSTITUTES OF HEALTH	9,170	9,170	-	-	13,794	-	-	-	-	13,794
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,316	-	-	-	-	1,316
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	32,631	-	1,205	148	2,034	29,244
OFFICE OF EDUCATION	-	-	-	-	13,311	-	-	-	-	13,311
OFFICE OF THE SECRETARY	-	-	-	-	30,201	-	21,140	-	9,061	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	12,900	-	-	-	-	12,900
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	27,896	-	17,094	-	-	10,802
DEPARTMENT OF THE INTERIOR, TOTAL	6,344	3,251	2,943	150	4,674	2,270	759	840	535	270
BUREAU OF LAND MANAGEMENT	-	-	-	-	86	-	-	-	86	-
BUREAU OF MINES	2,850	2,850	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	129	-	50	-	79	-
GEOLOGICAL SURVEY	2,907	401	2,506	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,399	2,270	91	-	120	-
OFFICE OF THE SECRETARY	11	-	11	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	426	-	426	-	60	-	-	-	-	60
OFFICE OF WATER RSCH & TECHNOLOGY	150	-	-	150	2,000	-	700	840	250	210
DEPARTMENT OF JUSTICE, TOTAL	150	150	-	-	38,731	-	525	-	11,622	26,584
BUREAU OF PRISONS	-	-	-	-	679	-	75	-	135	469
LAW ENFORCEMENT ASSISTANCE ADMIN	150	150	-	-	36,998	-	450	-	11,487	25,061
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,054	-	-	-	-	1,054
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	25,313	-	16,315	-	668	8,330
BUREAU OF LABOR STATISTICS	-	-	-	-	782	-	782	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	3,737	-	3,737	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	14,533	-	5,535	-	668	8,330
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,761	-	2,761	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	1,300	-	1,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	2,200	-	2,200	-	-	-
DEPARTMENT OF STATE, TOTAL	11,582	10,490	-	1,092	9,225	2,190	2,857	-	1,300	2,878
AGENCY FOR INTERNAT'L DEVELOPMENT	11,582	10,490	-	1,092	7,158	2,190	1,740	-	1,300	1,928
DEPARTMENTAL FUNDS	-	-	-	-	2,067	-	1,117	-	-	950
DEPARTMENT OF TRANSPORTATION, TOTAL	1,832	359	559	914	1,019	-	918	101	-	-
COAST GUARD	-	-	-	-	31	-	31	-	-	-
FEDERAL RAILROAD ADMINISTRATION	34	-	34	-	8	-	8	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,798	359	525	914	311	-	311	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	669	-	568	101	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	380	-	-	-	-	380
INTERNAL REVENUE SERVICE	-	-	-	-	380	-	-	-	-	380

CONTINUED ON NEXT PAGE

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	231	-	-	-	231	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,685	-	842	843	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	320	-	320	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	711	-	711	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,961	-	-	-	1,961	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	300	-	-	-	-	300
ENVIRONMENTAL PROTECTION AGENCY	3,699	1,797	1,902	-	2,484	-	2,279	-	205	-
FEDERAL COMMUNICATIONS COMMISSION	83	-	-	83	1,212	-	1,212	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	159	159	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	977	-	977	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,356	-	1,356	-	-	-
GENERAL SERVICES ADMINISTRATION	-	-	-	-	90	-	90	-	-	-
INTERSTATE COMMERCE COMMISSION	100	100	-	-	150	-	150	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	18,156	2,016	16,140	-	54	-	-	29	-	25
NATIONAL SCIENCE FOUNDATION	44,510	23,256	21,254	-	55,124	5,948	11,865	3,384	3,958	29,969
SMITHSONIAN INSTITUTION	-	-	-	-	12,388	5,694	-	-	-	6,694
US ARMS CONTROL & DISARMAMENT AGENCY	297	-	89	208	1,296	-	-	1,296	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,119	-	3,119	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	275,579	91,378	151,815	32,386	560,310	18,708	177,210	9,937	58,699	295,756
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,190	5,190	-	-	80,999	15	74,242	-	5,192	1,550
ECON, STAT & COOPERATIVES SERVICE	1,580	1,580	-	-	34,320	-	32,267	-	1,292	761
FOREST SERVICE	1,691	1,691	-	-	7,774	-	5,745	-	2,029	-
SCIENCE & EDUCATION ADMINISTRATION	1,919	1,919	-	-	38,905	15	36,230	-	1,871	789
AGRICULTURAL RESEARCH	1,919	1,919	-	-	3,572	15	2,768	-	-	789
COOPERATIVE RESEARCH	-	-	-	-	35,333	-	33,462	-	1,871	-
DEPARTMENT OF COMMERCE, TOTAL	6,778	5,676	1,102	-	9,918	-	9,617	70	231	-
BUREAU OF THE CENSUS	1,848	1,635	213	-	507	-	276	-	231	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	5,500	-	5,500	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	460	-	460	-	-	-
NATIONAL BUREAU OF STANDARDS	3,508	3,407	101	-	3,078	-	3,078	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,422	634	788	-	373	-	303	70	-	-
DEPARTMENT OF DEFENSE, TOTAL	148,657	27,933	98,966	21,758	30,439	-	840	2,240	2,964	24,395
DEPARTMENT OF THE ARMY	13,234	5,255	6,519	1,460	25,468	-	268	-	805	24,395
DEPARTMENT OF THE NAVY	36,018	8,041	26,869	1,108	1,691	-	-	-	1,691	-
DEPARTMENT OF THE AIR FORCE	55,136	12,718	40,258	2,160	-	-	-	-	-	-
DEFENSE AGENCIES	43,801	1,451	25,320	17,030	2,032	-	-	2,032	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	468	468	-	-	1,248	-	572	208	468	-
DEPARTMENT OF ENERGY, TOTAL	9,800	5,790	4,010	-	3,000	-	3,000	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	11,541	11,341	200	-	240,872	3,031	19,262	356	33,867	184,356
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,231	1,031	200	-	27,843	3,031	337	205	21,900	2,370
HEALTH CARE FINANCING ADMIN	-	-	-	-	32,500	-	-	-	-	32,500
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	1,100	-	-	-	-	1,100
HUMAN DEVELOPMENT SERVICES	-	-	-	-	27,706	-	197	-	2,392	25,117
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	42,500	-	-	-	-	42,500
NATIONAL INSTITUTES OF HEALTH	10,310	10,310	-	-	15,093	-	-	-	-	15,093
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,288	-	-	-	-	1,288
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	33,172	-	1,228	151	2,075	29,718
OFFICE OF EDUCATION	-	-	-	-	18,470	-	-	-	-	18,470
OFFICE OF THE SECRETARY	-	-	-	-	25,000	-	17,500	-	7,500	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	16,200	-	-	-	-	16,200
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	30,010	-	16,489	-	-	13,521
DEPARTMENT OF THE INTERIOR, TOTAL	8,930	5,526	3,244	160	5,816	2,943	844	900	682	447
BUREAU OF LAND MANAGEMENT	-	-	-	-	72	-	-	-	72	-
BUREAU OF MINES	5,075	5,075	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	110	-	28	-	82	-
GEOLOGICAL SURVEY	3,545	451	3,094	-	100	-	-	-	-	100
NATIONAL PARK SERVICE	-	-	-	-	3,234	2,943	16	-	178	97
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	150	-	150	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	160	-	-	160	2,300	-	800	900	350	250
DEPARTMENT OF JUSTICE, TOTAL	150	-	-	150	25,880	-	250	-	7,221	18,409
BUREAU OF PRISONS	-	-	-	-	1,461	-	250	-	377	834
LAW ENFORCEMENT ASSISTANCE ADMIN	150	-	-	150	22,974	-	-	-	6,844	16,130
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,445	-	-	-	-	1,445
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	31,856	-	22,852	-	674	8,330
BUREAU OF LABOR STATISTICS	-	-	-	-	912	-	912	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,813	-	5,813	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	14,602	-	5,598	-	674	8,330
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,183	-	3,183	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	800	-	800	-	-	-
DEPARTMENT OF STATE, TOTAL	9,245	-	-	9,245	12,751	-	2,191	-	2,806	7,754
AGENCY FOR INTERNAT'L DEVELOPMENT	9,245	-	-	9,245	10,753	-	1,095	-	2,806	6,852
DEPARTMENTAL FUNDS	-	-	-	-	1,998	-	1,096	-	-	902
DEPARTMENT OF TRANSPORTATION, TOTAL	1,859	365	565	929	2,119	-	1,864	255	-	-
COAST GUARD	-	-	-	-	79	-	79	-	-	-
FEDERAL RAILROAD ADMINISTRATION	32	-	32	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,827	365	533	929	324	-	324	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,705	-	1,450	255	-	-

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TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,703	-	852	851	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	830	-	830	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	4,000	1,800	2,200	-	2,500	-	2,300	-	200	-
FEDERAL COMMUNICATIONS COMMISSION	85	-	-	85	1,815	-	1,815	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	199	199	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,521	-	1,521	-	-	-
INTERSTATE COMMERCE COMMISSION	120	120	-	-	145	-	145	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	19,993	2,410	17,583	-	100	-	-	43	-	57
NATIONAL SCIENCE FOUNDATION	48,698	25,028	23,670	-	57,689	7,149	12,871	3,977	3,862	29,826
SMITHSONIAN INSTITUTION	-	-	-	-	12,681	5,570	-	-	-	7,111
US ARMS CONTROL & DISARMAMENT AGENCY	334	-	275	59	1,575	-	330	1,248	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,285	-	3,285	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	315,519	97,946	162,578	54,995	575,425	20,934	179,010	9,829	62,066	303,586
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,203	5,203	-	-	81,624	15	74,941	-	5,073	1,595
ECON, STAT & COOPERATIVES SERVICE	1,751	1,751	-	-	38,049	-	35,773	-	1,433	843
FOREST SERVICE	1,582	1,582	-	-	7,276	-	5,376	-	1,900	-
SCIENCE & EDUCATION ADMINISTRATION	1,870	1,870	-	-	36,299	15	33,792	-	1,740	752
AGRICULTURAL RESEARCH	1,870	1,870	-	-	3,430	15	2,663	-	-	752
COOPERATIVE RESEARCH	-	-	-	-	32,869	-	31,129	-	1,740	-
DEPARTMENT OF COMMERCE, TOTAL	7,092	5,993	1,099	-	4,538	-	4,282	-	256	-
BUREAU OF THE CENSUS	2,178	1,941	237	-	563	-	307	-	256	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,500	-	2,500	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	370	-	370	-	-	-
NATIONAL BUREAU OF STANDARDS	3,541	3,439	102	-	1,105	-	1,105	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,373	613	760	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	165,424	30,475	99,534	35,415	37,635	-	1,529	1,912	3,614	30,580
DEPARTMENT OF THE ARMY	14,904	6,398	7,063	1,443	29,107	-	330	-	997	27,780
DEPARTMENT OF THE NAVY	37,220	8,123	27,762	1,335	1,636	-	-	-	1,636	-
DEPARTMENT OF THE AIR FORCE	56,688	14,235	42,213	240	-	-	-	-	-	-
DEFENSE AGENCIES	55,631	738	22,496	32,397	4,276	-	-	1,476	-	2,800
DEFENSE CIVIL PREPAREDNESS AGENCY	981	981	-	-	2,616	-	1,199	436	981	-
DEPARTMENT OF ENERGY, TOTAL	13,100	7,265	5,835	-	3,000	-	3,000	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	11,820	11,520	300	-	264,476	4,196	18,936	370	36,285	204,689
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,498	1,198	300	-	32,620	4,196	392	238	24,977	2,817
HEALTH CARE FINANCING ADMIN	-	-	-	-	51,300	-	-	-	-	51,300
HUMAN DEVELOPMENT SERVICES	-	-	-	-	27,921	-	171	-	2,079	25,671
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	45,500	-	-	-	-	45,500
NATIONAL INSTITUTES OF HEALTH	10,322	10,322	-	-	15,093	-	-	-	-	15,093
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,486	-	-	-	-	1,486
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	28,725	-	1,073	132	1,814	25,706
OFFICE OF EDUCATION	-	-	-	-	18,316	-	-	-	-	18,316
OFFICE OF THE SECRETARY	-	-	-	-	24,715	-	17,300	-	7,415	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	18,800	-	-	-	-	18,800
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	24,700	-	20,482	-	-	4,218
DEPARTMENT OF THE INTERIOR, TOTAL	9,244	5,385	3,699	160	5,933	3,085	882	900	714	352
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,900	4,900	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	168	-	65	-	103	-
GEOLOGICAL SURVEY	4,034	485	3,549	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	3,390	3,085	17	-	186	102
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	150	-	150	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	160	-	-	160	2,300	-	800	900	350	250
DEPARTMENT OF JUSTICE, TOTAL	150	-	-	150	21,862	-	650	500	6,969	13,743
LAW ENFORCEMENT ASSISTANCE ADMIN	150	-	-	150	20,152	-	650	500	6,969	12,033
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,710	-	-	-	-	1,710
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	32,430	-	23,966	-	664	7,800
BUREAU OF LABOR STATISTICS	-	-	-	-	864	-	864	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	7,056	-	7,056	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	14,012	-	5,548	-	664	7,800
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,152	-	3,152	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	800	-	800	-	-	-
DEPARTMENT OF STATE, TOTAL	18,375	-	-	18,375	7,120	-	2,560	-	2,071	2,489
AGENCY FOR INTERNAT'L DEVELOPMENT	18,375	-	-	18,375	5,721	-	1,815	-	2,071	1,835
DEPARTMENTAL FUNDS	-	-	-	-	1,399	-	745	-	-	654
DEPARTMENT OF TRANSPORTATION, TOTAL	1,523	299	464	760	1,552	-	1,375	177	-	-
COAST GUARD	-	-	-	-	93	-	93	-	-	-
FEDERAL RAILROAD ADMINISTRATION	28	-	28	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,495	299	436	760	265	-	265	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,184	-	1,007	177	-	-

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TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,683	-	842	841	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	730	-	730	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	2,000	-	-	-	2,000	-
ENVIRONMENTAL PROTECTION AGENCY	6,000	2,000	4,000	-	2,500	-	2,300	-	200	-
FEDERAL COMMUNICATIONS COMMISSION	85	-	-	85	1,815	-	1,815	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	196	196	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,325	-	1,325	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,312	-	1,312	-	-	-
INTERSTATE COMMERCE COMMISSION	120	120	-	-	180	-	180	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	23,118	1,668	21,450	-	100	-	-	43	-	57
NATIONAL SCIENCE FOUNDATION	53,869	27,822	26,047	-	60,426	8,065	13,460	3,931	4,220	30,750
SMITHSONIAN INSTITUTION	-	-	-	-	12,886	5,573	-	-	-	7,313
US ARMS CONTROL & DISARMAMENT AGENCY	200	-	150	50	1,350	-	195	1,155	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,648	-	3,648	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL						
			UNITED STATES AND TERRITORIES						
			INDUS-TRIAL FIRMS	FFRDCs ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCs ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCs ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	3,699,124	1,046,603	237,787	65,416	1,754,525	356,772	190,578	5,769	17,050	24,624
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	242,704	160,599	650	-	77,712	-	110	-	380	3,253
ECON, STAT & COOPERATIVES SERVICE	3,924	3,649	-	-	275	-	-	-	-	-
FOREST SERVICE	30,840	24,104	437	-	6,209	-	31	-	59	-
SCIENCE & EDUCATION ADMINISTRATION	207,940	132,846	213	-	71,228	-	79	-	321	3,253
AGRICULTURAL RESEARCH	142,379	130,619	213	-	8,102	-	79	-	117	3,253
COOPERATIVE RESEARCH	65,561	2,231	-	-	63,126	-	-	-	204	-
DEPARTMENT OF COMMERCE, TOTAL	23,861	16,274	2,852	-	3,686	-	1,049	-	-	-
BUREAU OF THE CENSUS	507	371	-	-	136	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,690	10	-	-	1,738	-	942	-	-	-
MARITIME ADMINISTRATION	2,700	90	2,610	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	5,909	5,485	23	-	401	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,055	10,318	219	-	1,411	-	107	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	319,079	96,839	47,315	-	155,855	1,193	10,541	456	-	6,880
DEPARTMENT OF THE ARMY	54,530	23,691	2,377	-	24,103	-	2,497	-	-	1,862
DEPARTMENT OF THE NAVY	130,300	44,746	10,582	-	67,182	425	3,504	60	-	3,801
DEPARTMENT OF THE AIR FORCE	95,100	23,223	19,971	-	49,547	-	1,142	-	-	1,217
DEFENSE AGENCIES	39,149	5,179	14,385	-	15,023	768	3,398	396	-	-
DEPARTMENT OF ENERGY, TOTAL	440,534	7,180	1,798	51,190	85,514	289,910	991	3,936	-	15
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,292,339	284,544	15,236	12,582	816,653	2,953	135,237	412	15,377	9,345
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	79,917	32,556	-	-	35,746	-	9,420	-	1,575	620
HEALTH SERVICES ADMINISTRATION	636	636	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,223	101	-	-	2,122	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	18,276	3,036	731	-	7,675	-	5,084	-	1,750	-
NATIONAL INSTITUTES OF HEALTH	1,181,094	244,690	14,235	12,582	767,602	2,953	119,755	412	11,984	6,881
OFFICE OF ASST'T SECY FOR HEALTH	5,120	1,060	108	-	1,082	-	958	-	68	1,844
OFFICE OF THE SECRETARY	5,073	2,465	162	-	2,426	-	20	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	145,672	131,402	1,405	-	12,637	-	-	-	180	48
BUREAU OF MINES	8,600	8,600	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	150	150	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	126,084	117,084	-	-	9,000	-	-	-	-	-
OFFICE OF THE SECRETARY	1,738	1,048	355	-	287	-	-	-	-	48
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	1,000	-	3,000	-	-	-	100	-
US FISH & WILDLIFE SERVICE	4,500	4,020	50	-	350	-	-	-	80	-
DEPARTMENT OF JUSTICE, TOTAL	14,700	849	1,500	-	3,978	-	7,573	190	610	-
LAW ENFORCEMENT ASSISTANCE ADMIN	14,700	849	1,500	-	3,978	-	7,573	190	610	-
DEPARTMENT OF LABOR, TOTAL	3,678	255	-	-	3,351	-	72	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,528	105	-	-	3,351	-	72	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	150	150	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	6,010	3,125	1,563	-	1,322	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,847	1,180	-	-	1,315	246	106	-	-	-
FEDERAL TRADE COMMISSION	452	452	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1,781	1,312	379	-	-	-	90	-	-	-
LIBRARY OF CONGRESS	130	130	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	479,729	221,459	153,065	-	88,341	9,195	6,000	206	60	1,403
NATIONAL SCIENCE FOUNDATION	678,040	76,596	12,024	1,644	502,019	53,275	27,790	569	443	3,680
SMITHSONIAN INSTITUTION	34,896	31,996	-	-	1,994	-	906	-	-	-
TENNESSEE VALLEY AUTHORITY	3,781	3,764	-	-	17	-	-	-	-	-
VETERANS ADMINISTRATION	8,891	8,647	-	-	131	-	113	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	4,205,133	1,156,543	278,413	70,397	2,049,997	381,906	211,114	7,421	19,433	29,909
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	251,872	160,950	466	-	87,335	-	33	-	266	2,822
ECON, STAT & COOPERATIVES SERVICE	4,308	4,044	-	-	264	-	-	-	-	-
FOREST SERVICE	32,880	25,699	466	-	6,619	-	33	-	63	-
SCIENCE & EDUCATION ADMINISTRATION	214,684	131,207	-	-	80,452	-	-	-	203	2,822
AGRICULTURAL RESEARCH	143,268	128,480	-	-	11,966	-	-	-	-	2,822
COOPERATIVE RESEARCH	71,416	2,727	-	-	68,486	-	-	-	203	-
DEPARTMENT OF COMMERCE, TOTAL	26,626	19,223	3,019	-	2,934	-	1,450	-	-	-
BUREAU OF THE CENSUS	706	485	-	-	221	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,900	10	135	-	550	-	1,205	-	-	-
MARITIME ADMINISTRATION	2,600	108	2,492	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	8,585	8,160	25	-	400	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,835	10,460	367	-	1,763	-	245	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	378,429	113,190	56,074	-	174,224	11,932	11,440	774	-	10,795
DEPARTMENT OF THE ARMY	59,882	25,792	1,609	-	28,699	-	2,718	-	-	1,064
DEPARTMENT OF THE NAVY	151,800	54,113	11,278	-	73,487	450	3,697	244	-	8,531
DEPARTMENT OF THE AIR FORCE	104,900	24,730	22,210	-	55,400	-	1,360	-	-	1,200
DEFENSE AGENCIES	61,847	8,555	20,977	-	16,638	11,482	3,665	530	-	-
DEPARTMENT OF ENERGY, TOTAL	471,645	4,966	4,071	54,491	98,276	303,409	958	5,459	-	15
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,561,380	332,315	17,700	14,107	1,008,113	3,451	156,750	473	18,090	10,381
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	95,867	36,830	-	-	45,854	-	10,516	-	1,880	787
HEALTH SERVICES ADMINISTRATION	1,100	1,100	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,305	105	-	-	2,200	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	21,700	3,650	868	-	9,153	-	5,859	-	2,170	-
NATIONAL INSTITUTES OF HEALTH	1,428,600	286,582	16,545	14,107	946,762	3,451	139,218	473	13,945	7,517
OFFICE OF ASST'T SECY FOR HEALTH	5,608	1,072	101	-	1,106	-	1,157	-	95	2,077
OFFICE OF THE SECRETARY	6,200	2,976	186	-	3,038	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	165,404	148,198	1,379	-	13,657	-	-	-	170	2,000
BUREAU OF MINES	13,800	13,800	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	123	123	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	137,964	127,964	-	-	10,000	-	-	-	-	-
OFFICE OF THE SECRETARY	3,517	941	319	-	257	-	-	-	-	2,000
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	1,000	-	3,000	-	-	-	100	-
US FISH & WILDLIFE SERVICE	5,400	4,870	60	-	400	-	-	-	70	-
DEPARTMENT OF JUSTICE, TOTAL	9,700	571	300	-	3,918	-	4,211	200	500	-
LAW ENFORCEMENT ASSISTANCE ADMIN	9,700	571	300	-	3,918	-	4,211	200	500	-
DEPARTMENT OF LABOR, TOTAL	3,932	509	-	-	3,360	-	63	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,532	109	-	-	3,360	-	63	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	400	400	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	9,424	3,947	3,107	-	2,370	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,225	1,558	-	-	1,315	246	106	-	-	-
FEDERAL TRADE COMMISSION	445	445	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	17	17	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	130	130	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	531,192	236,893	179,199	-	95,000	11,763	6,644	215	65	1,413
NATIONAL SCIENCE FOUNDATION	741,078	86,550	13,098	1,799	556,989	51,105	28,412	300	342	2,483
SMITHSONIAN INSTITUTION	37,292	33,937	-	-	2,308	-	1,047	-	-	-
TENNESSEE VALLEY AUTHORITY	4,048	4,028	-	-	20	-	-	-	-	-
VETERANS ADMINISTRATION	9,294	9,116	-	-	178	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL						
			UNITED STATES AND TERRITORIES						FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	4,537,606	1,202,928	333,920	80,631	2,200,265	442,102	219,173	9,242	18,506	31,239
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	267,551	161,638	467	-	102,082	-	33	-	265	3,066
ECON, STAT & COOPERATIVES SERVICE	4,776	4,512	-	-	264	-	-	-	-	-
FOREST SERVICE	30,765	23,565	467	-	6,637	-	33	-	63	-
SCIENCE & EDUCATION ADMINISTRATION	232,010	133,561	-	-	95,181	-	-	-	202	3,066
AGRICULTURAL RESEARCH	149,526	130,235	-	-	16,225	-	-	-	-	3,066
COOPERATIVE RESEARCH	82,484	3,326	-	-	78,956	-	-	-	202	-
DEPARTMENT OF COMMERCE, TOTAL	28,842	22,673	2,999	-	2,397	-	813	-	-	-
BUREAU OF THE CENSUS	917	683	-	-	234	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	900	5	65	-	260	-	570	-	-	-
MARITIME ADMINISTRATION	2,400	101	2,299	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	10,675	10,250	25	-	400	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	13,950	11,634	610	-	1,463	-	243	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	436,894	124,985	67,626	-	194,480	24,744	11,351	1,765	-	11,943
DEPARTMENT OF THE ARMY	73,610	30,234	1,922	-	36,332	-	2,837	-	-	2,285
DEPARTMENT OF THE NAVY	152,800	54,201	10,154	-	74,683	450	4,489	465	-	8,358
DEPARTMENT OF THE AIR FORCE	122,184	28,000	26,260	-	65,200	-	1,424	-	-	1,300
DEFENSE AGENCIES	88,300	12,550	29,290	-	18,265	24,294	2,601	1,300	-	-
DEPARTMENT OF ENERGY, TOTAL	548,442	5,546	4,200	64,301	126,337	340,983	997	6,063	-	15
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,581,476	336,861	16,276	14,345	1,023,004	2,586	161,046	430	16,906	10,022
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	110,294	41,606	-	-	53,577	-	12,002	-	2,133	976
HEALTH SERVICES ADMINISTRATION	1,000	1,000	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,017	92	-	-	1,925	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	23,400	3,489	936	-	9,849	-	6,786	-	2,340	-
NATIONAL INSTITUTES OF HEALTH	1,434,500	287,049	15,084	14,345	953,942	2,586	141,458	430	12,345	7,261
OFFICE OF ASST'T SECY FOR HEALTH	4,665	937	88	-	967	-	800	-	88	1,785
OFFICE OF THE SECRETARY	5,600	2,688	168	-	2,744	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	161,359	145,188	1,349	-	13,642	-	-	-	180	1,000
BUREAU OF MINES	11,300	11,300	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	194	194	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	137,341	127,341	-	-	10,000	-	-	-	-	-
OFFICE OF THE SECRETARY	2,424	883	299	-	242	-	-	-	-	1,000
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	1,000	-	3,000	-	-	-	100	-
US FISH & WILDLIFE SERVICE	5,500	4,970	50	-	400	-	-	-	80	-
DEPARTMENT OF JUSTICE, TOTAL	8,700	954	1,000	-	1,080	-	4,516	450	700	-
LAW ENFORCEMENT ASSISTANCE ADMIN	8,700	954	1,000	-	1,080	-	4,516	450	700	-
DEPARTMENT OF LABOR, TOTAL	3,791	499	-	-	3,258	-	34	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,391	99	-	-	3,258	-	34	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	400	400	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	16,883	7,090	3,900	-	5,893	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,150	483	-	-	1,315	246	106	-	-	-
FEDERAL TRADE COMMISSION	337	337	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	68	18	50	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	130	130	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	599,176	255,155	221,923	-	98,000	14,948	7,493	229	65	1,363
NATIONAL SCIENCE FOUNDATION	828,315	90,910	14,130	1,985	626,443	58,595	31,727	305	390	3,830
SMITHSONIAN INSTITUTION	39,330	35,944	-	-	2,329	-	1,057	-	-	-
TENNESSEE VALLEY AUTHORITY	4,291	4,271	-	-	20	-	-	-	-	-
VETERANS ADMINISTRATION	9,871	9,846	-	-	25	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	3,699,124	4,205,133	4,537,606
LIFE SCIENCES, TOTAL	1,572,399	1,840,961	1,904,042
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	873,390	1,030,612	1,062,992
ENVIRONMENTAL BIOLOGY	64,138	71,722	81,843
AGRICULTURAL	139,849	144,983	157,264
MEDICAL	452,986	543,799	551,435
LIFE SCIENCES, NEC	42,036	49,845	50,508
PSYCHOLOGY, TOTAL	80,443	89,576	94,248
BIOLOGICAL ASPECTS	37,906	38,283	38,920
SOCIAL ASPECTS	23,397	27,950	30,439
PSYCHOLOGICAL SCIENCES, NEC	19,140	23,343	24,889
PHYSICAL SCIENCES, TOTAL	922,408	1,031,423	1,168,528
ASTRONOMY	209,814	241,911	296,266
CHEMISTRY	204,156	223,236	248,079
PHYSICS	499,589	548,491	604,615
PHYSICAL SCIENCES, NEC	8,849	17,785	19,568
ENVIRONMENTAL SCIENCES, TOTAL	527,867	578,400	633,842
ATMOSPHERIC	165,413	184,313	208,104
GEOLOGICAL	208,002	220,748	239,952
OCEANOGRAPHY	133,053	146,160	157,838
ENVIRONMENTAL SCIENCES, NEC	21,399	27,179	27,948
MATHEMATICS & COMPUTER SCIENCES, TOTAL	92,231	105,797	121,278
MATHEMATICS	51,038	56,613	63,808
COMPUTER SCIENCES	39,621	43,733	47,286
MATHEMATICS & COMPUTER SCIENCES, NEC	1,572	5,451	10,184
ENGINEERING, TOTAL	344,181	385,977	422,897
AERONAUTICAL	63,757	71,243	76,605
ASTRONAUTICAL	15,191	15,533	16,400
CHEMICAL	16,134	16,898	19,493
CIVIL	10,784	11,295	12,202
ELECTRICAL	47,530	49,776	55,792
MECHANICAL	24,365	26,760	29,634
METALLURGY & MATERIALS	128,516	148,867	166,581
ENGINEERING, NEC	37,904	45,605	46,190
SOCIAL SCIENCES, TOTAL	124,198	130,628	132,642
ANTHROPOLOGY	11,957	13,086	14,062
ECONOMICS	33,519	35,775	34,276
POLITICAL SCIENCE	3,245	3,800	3,773
SOCIOLOGY	18,484	18,787	19,877
SOCIAL SCIENCES, NEC	56,993	59,180	60,654
OTHER SCIENCES, NEC	35,397	42,371	40,129

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,699,124	1,572,399	80,443	922,408	527,867	92,231	344,181	124,198	35,397
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	242,704	182,504	31	25,400	4,287	1,165	12,458	16,859	-
ECON, STAT & COOPERATIVES SERVICE	3,924	-	-	-	-	-	-	3,924	-
FOREST SERVICE	30,840	20,940	31	2,189	3,146	678	2,776	1,080	-
SCIENCE & EDUCATION ADMINISTRATION	207,940	161,564	-	23,211	1,141	487	9,682	11,855	-
AGRICULTURAL RESEARCH	142,379	111,999	-	20,505	825	487	7,949	614	-
COOPERATIVE RESEARCH	65,561	49,565	-	2,706	316	-	1,733	11,241	-
DEPARTMENT OF COMMERCE, TOTAL	23,861	-	109	6,636	10,127	1,001	3,298	2,690	-
BUREAU OF THE CENSUS	507	-	109	-	-	398	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	2,690	-	-	-	-	-	-	2,690	-
MARITIME ADMINISTRATION	2,700	-	-	-	-	-	2,700	-	-
NATIONAL BUREAU OF STANDARDS	5,909	-	-	5,672	-	-	237	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,055	-	-	964	10,127	603	361	-	-
DEPARTMENT OF DEFENSE, TOTAL	319,079	34,576	15,136	73,096	62,544	31,093	99,217	1,502	1,915
DEPARTMENT OF THE ARMY	54,530	17,020	3,611	9,263	6,948	5,120	12,406	162	-
DEPARTMENT OF THE NAVY	130,300	12,170	3,150	37,900	47,698	8,098	19,944	1,340	-
DEPARTMENT OF THE AIR FORCE	95,100	4,537	4,468	22,486	7,132	8,683	47,794	-	-
DEFENSE AGENCIES	39,149	849	3,907	3,447	766	9,192	19,073	-	1,915
DEPARTMENT OF ENERGY, TOTAL	440,534	29,744	-	325,387	3,960	7,398	69,241	-	4,804
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,292,339	1,154,142	35,272	32,936	-	3,651	10,753	37,566	18,019
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	79,917	47,113	24,822	214	-	302	73	7,289	104
HEALTH SERVICES ADMINISTRATION	636	636	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,223	2,223	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	18,276	-	-	-	-	-	-	18,276	-
NATIONAL INSTITUTES OF HEALTH	1,181,094	1,104,170	10,450	32,722	-	3,349	10,680	1,808	17,915
OFFICE OF ASST'T SECY FOR HEALTH	5,120	-	-	-	-	-	-	5,120	-
OFFICE OF THE SECRETARY	5,073	-	-	-	-	-	-	5,073	-
DEPARTMENT OF THE INTERIOR, TOTAL	145,672	5,100	-	12,944	118,663	2,601	5,336	500	328
BUREAU OF MINES	8,600	-	-	3,700	765	700	3,435	-	-
BUREAU OF RECLAMATION	150	-	-	-	-	-	97	-	53
GEOLOGICAL SURVEY	126,084	-	-	8,894	115,340	1,850	-	-	-
OFFICE OF THE SECRETARY	1,738	-	-	-	898	111	829	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	4,500	4,500	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	14,700	-	2,593	-	-	-	-	12,107	-
LAW ENFORCEMENT ASSISTANCE ADMIN	14,700	-	2,593	-	-	-	-	12,107	-
DEPARTMENT OF LABOR, TOTAL	3,678	-	64	-	-	-	-	3,614	-
EMPLOYMENT & TRAINING ADMIN	3,528	-	64	-	-	-	-	3,464	-
LABOR-MANAGEMENT SERVICES ADMIN	150	-	-	-	-	-	-	150	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	6,010	4,022	-	1,683	305	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,847	195	-	2,652	-	-	-	-	-
FEDERAL TRADE COMMISSION	452	-	-	-	-	-	-	452	-
GENERAL SERVICES ADMINISTRATION	1,781	-	-	-	-	-	1,679	90	12
LIBRARY OF CONGRESS	130	-	-	-	-	-	-	-	130
NATIONAL AERONAUTICS & SPACE ADMIN	479,729	17,678	17,015	243,099	126,690	1,973	72,201	5	1,068
NATIONAL SCIENCE FOUNDATION	678,040	121,801	9,209	189,750	198,594	43,349	69,791	36,425	9,121
SMITHSONIAN INSTITUTION	34,896	13,396	-	6,417	2,697	-	-	12,386	-
TENNESSEE VALLEY AUTHORITY	3,781	1,366	-	2,408	-	-	7	-	-
VETERANS ADMINISTRATION	8,891	7,877	1,014	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	4,205,133	1,840,961	89,576	1,031,423	578,400	105,797	385,977	130,628	42,371
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	251,872	190,834	33	24,127	4,469	1,237	12,782	18,390	-
ECON, STAT & COOPERATIVES SERVICE	4,308	-	-	-	-	-	-	4,308	-
FOREST SERVICE	32,880	22,326	33	2,335	3,353	723	2,960	1,150	-
SCIENCE & EDUCATION ADMINISTRATION	214,684	168,508	-	21,792	1,116	514	9,822	12,932	-
AGRICULTURAL RESEARCH	143,268	114,941	-	18,773	763	514	7,888	389	-
COOPERATIVE RESEARCH	71,416	53,567	-	3,019	353	-	1,934	12,543	-
DEPARTMENT OF COMMERCE, TOTAL	26,626	-	151	8,832	10,790	1,494	3,459	1,900	-
BUREAU OF THE CENSUS	706	-	151	-	-	555	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,900	-	-	-	-	-	-	1,900	-
MARITIME ADMINISTRATION	2,600	-	-	-	-	-	2,600	-	-
NATIONAL BUREAU OF STANDARDS	8,585	-	-	7,805	-	302	478	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,835	-	-	1,027	10,790	637	381	-	-
DEPARTMENT OF DEFENSE, TOTAL	378,429	39,233	17,304	91,489	78,813	37,609	110,290	1,867	1,824
DEPARTMENT OF THE ARMY	59,882	19,507	3,534	10,034	7,428	5,301	13,902	176	-
DEPARTMENT OF THE NAVY	151,800	13,449	3,778	42,967	57,467	9,529	22,919	1,691	-
DEPARTMENT OF THE AIR FORCE	104,900	5,230	5,614	23,349	8,446	9,464	52,797	-	-
DEFENSE AGENCIES	61,847	1,047	4,378	15,139	5,472	13,315	20,672	-	1,824
DEPARTMENT OF ENERGY, TOTAL	471,645	27,308	-	345,094	6,100	8,600	76,353	-	8,252
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,561,380	1,395,243	42,931	39,785	-	4,404	13,002	44,284	21,731
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	95,867	56,423	30,120	213	-	361	87	8,590	73
HEALTH SERVICES ADMINISTRATION	1,100	1,100	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,305	2,305	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	21,700	-	-	-	-	-	-	21,700	-
NATIONAL INSTITUTES OF HEALTH	1,428,600	1,335,415	12,811	39,572	-	4,043	12,915	2,186	21,658
OFFICE OF ASST'T SECY FOR HEALTH	5,608	-	-	-	-	-	-	5,608	-
OFFICE OF THE SECRETARY	6,200	-	-	-	-	-	-	6,200	-
DEPARTMENT OF THE INTERIOR, TOTAL	165,404	6,000	-	15,444	131,410	2,960	8,782	500	308
BUREAU OF MINES	13,800	-	-	6,250	750	800	6,000	-	-
BUREAU OF RECLAMATION	123	-	-	-	-	-	90	-	33
GEOLOGICAL SURVEY	137,964	-	-	8,844	127,000	2,120	-	-	-
OFFICE OF THE SECRETARY	3,517	-	-	-	2,000	-	1,517	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	5,400	5,400	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	9,700	-	2,556	-	-	-	-	7,144	-
LAW ENFORCEMENT ASSISTANCE ADMIN	9,700	-	2,556	-	-	-	-	7,144	-
DEPARTMENT OF LABOR, TOTAL	3,932	-	64	-	-	-	-	3,868	-
EMPLOYMENT & TRAINING ADMIN	3,532	-	64	-	-	-	-	3,468	-
LABOR-MANAGEMENT SERVICES ADMIN	400	-	-	-	-	-	-	400	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	9,424	6,086	-	2,638	400	-	300	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,225	292	-	2,933	-	-	-	-	-
FEDERAL TRADE COMMISSION	445	-	-	-	-	-	-	445	-
GENERAL SERVICES ADMINISTRATION	17	-	-	-	-	-	-	-	17
LIBRARY OF CONGRESS	130	-	-	-	-	-	-	-	130
NATIONAL AERONAUTICS & SPACE ADMIN	531,192	16,944	14,583	283,033	133,048	2,549	79,860	25	1,150
NATIONAL SCIENCE FOUNDATION	741,078	134,510	10,930	208,624	210,445	46,944	81,142	39,524	8,959
SMITHSONIAN INSTITUTION	37,292	14,742	-	6,944	2,925	-	-	12,681	-
TENNESSEE VALLEY AUTHORITY	4,048	1,501	-	2,540	-	-	7	-	-
VETERANS ADMINISTRATION	9,294	8,270	1,024	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	4,537,606	1,904,042	94,248	1,168,528	633,842	121,278	422,897	132,642	60,129
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	267,551	206,729	31	24,586	4,262	1,213	12,801	17,929	-
ECON, STAT & COOPERATIVES SERVICE	4,776	-	-	-	-	-	-	4,776	-
FOREST SERVICE	30,765	20,888	31	2,184	3,138	677	2,770	1,077	-
SCIENCE & EDUCATION ADMINISTRATION	232,010	185,841	-	22,402	1,124	536	10,031	12,076	-
AGRICULTURAL RESEARCH	149,526	119,962	-	19,593	796	536	8,232	407	-
COOPERATIVE RESEARCH	82,484	65,879	-	2,809	328	-	1,799	11,669	-
DEPARTMENT OF COMMERCE, TOTAL	28,842	-	175	11,002	11,719	1,746	3,300	900	-
BUREAU OF THE CENSUS	917	-	175	-	-	742	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	900	-	-	-	-	-	-	900	-
MARITIME ADMINISTRATION	2,400	-	-	-	-	-	2,400	-	-
NATIONAL BUREAU OF STANDARDS	10,675	-	-	9,887	-	305	483	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	13,950	-	-	1,115	11,719	699	417	-	-
DEPARTMENT OF DEFENSE, TOTAL	436,894	45,831	19,716	109,851	91,185	44,991	122,248	1,771	1,301
DEPARTMENT OF THE ARMY	73,610	23,755	3,842	12,652	9,070	6,660	17,496	135	-
DEPARTMENT OF THE NAVY	152,800	13,976	4,045	43,157	57,529	9,717	22,740	1,636	-
DEPARTMENT OF THE AIR FORCE	122,184	6,500	6,800	26,300	10,280	11,100	61,204	-	-
DEFENSE AGENCIES	88,300	1,600	5,029	27,742	14,306	17,514	20,808	-	1,301
DEPARTMENT OF ENERGY, TOTAL	548,442	29,810	-	384,637	10,800	11,100	88,024	-	24,071
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,581,476	1,406,562	49,505	40,051	-	4,479	13,069	45,907	21,903
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	110,294	63,363	35,803	315	-	419	101	10,047	156
HEALTH SERVICES ADMINISTRATION	1,000	1,000	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	2,017	2,017	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	23,400	-	-	-	-	-	-	23,400	-
NATIONAL INSTITUTES OF HEALTH	1,434,500	1,340,182	13,612	39,736	-	4,060	12,968	2,195	21,747
OFFICE OF ASST'T SECY FOR HEALTH	4,665	-	-	-	-	-	-	4,665	-
OFFICE OF THE SECRETARY	5,600	-	-	-	-	-	-	5,600	-
DEPARTMENT OF THE INTERIOR, TOTAL	161,359	6,100	-	13,830	129,959	3,052	7,549	500	369
BUREAU OF MINES	11,300	-	-	5,000	650	800	4,850	-	-
BUREAU OF RECLAMATION	194	-	-	-	-	-	100	-	94
GEOLOGICAL SURVEY	137,341	-	-	8,480	126,649	2,212	-	-	-
OFFICE OF THE SECRETARY	2,424	-	-	-	1,000	-	1,424	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	5,500	5,500	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	8,700	-	1,336	-	-	-	-	7,364	-
LAW ENFORCEMENT ASSISTANCE ADMIN	8,700	-	1,336	-	-	-	-	7,364	-
DEPARTMENT OF LABOR, TOTAL	3,791	-	63	-	-	-	-	3,728	-
EMPLOYMENT & TRAINING ADMIN	3,391	-	63	-	-	-	-	3,328	-
LABOR-MANAGEMENT SERVICES ADMIN	400	-	-	-	-	-	-	400	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	16,883	9,983	-	5,200	700	-	1,000	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,150	82	-	2,068	-	-	-	-	-
FEDERAL TRADE COMMISSION	337	-	-	-	-	-	-	337	-
GENERAL SERVICES ADMINISTRATION	68	-	-	-	-	-	50	-	18
LIBRARY OF CONGRESS	130	-	-	-	-	-	-	-	130
NATIONAL AERONAUTICS & SPACE ADMIN	599,176	16,916	10,467	333,502	151,102	2,675	83,289	25	1,200
NATIONAL SCIENCE FOUNDATION	828,315	155,872	11,691	233,733	231,006	52,022	91,559	41,295	11,137
SMITHSONIAN INSTITUTION	39,330	15,900	-	7,435	3,109	-	-	12,886	-
TENNESSEE VALLEY AUTHORITY	4,291	1,650	-	2,633	-	-	8	-	-
VETERANS ADMINISTRATION	9,871	8,607	1,264	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	80,443	37,906	23,397	19,140	1,572,399	873,390	64,138	139,849	452,986	42,036
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31	-	31	-	182,504	28,122	10,954	139,849	2,288	1,291
FOREST SERVICE	31	-	31	-	20,940	13,446	7,494	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	161,564	14,676	3,460	139,849	2,288	1,291
AGRICULTURAL RESEARCH	-	-	-	-	111,999	6,137	3,460	101,111	-	1,291
COOPERATIVE RESEARCH	-	-	-	-	49,565	8,539	-	38,738	2,288	-
DEPARTMENT OF COMMERCE, TOTAL	109	-	109	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	109	-	109	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	15,136	766	8,986	5,384	34,576	11,138	2,608	-	20,120	710
DEPARTMENT OF THE ARMY	3,611	-	1,741	1,870	17,020	880	162	-	15,978	-
DEPARTMENT OF THE NAVY	3,150	-	3,150	-	12,170	7,962	915	-	3,293	-
DEPARTMENT OF THE AIR FORCE	4,468	-	4,018	450	4,537	2,296	1,531	-	-	710
DEFENSE AGENCIES	3,907	766	77	3,064	849	-	-	-	849	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	29,744	29,744	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	35,272	15,766	9,056	10,450	1,154,142	692,367	-	-	423,656	38,119
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	24,822	15,766	9,056	-	47,113	36,589	-	-	6,157	4,367
HEALTH SERVICES ADMINISTRATION	-	-	-	-	636	-	-	-	636	-
HUMAN DEVELOPMENT SERVICES	-	-	-	-	2,223	-	-	-	2,223	-
NATIONAL INSTITUTES OF HEALTH	10,450	-	-	10,450	1,104,170	655,778	-	-	414,640	33,752
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	5,100	5,070	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	4,500	4,500	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,593	-	1,693	900	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,593	-	1,693	900	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	64	-	64	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	64	-	64	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	4,022	-	4,022	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	195	195	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	17,015	14,527	82	2,406	17,678	17,678	-	-	-	-
NATIONAL SCIENCE FOUNDATION	9,209	5,838	3,371	-	121,801	82,016	37,884	-	-	1,901
SMITHSONIAN INSTITUTION	-	-	-	-	13,394	4,724	8,670	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,366	1,366	-	-	-	-
VETERANS ADMINISTRATION	1,014	1,009	5	-	7,877	970	-	-	6,907	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	89,576	38,283	27,950	23,343	1,840,961	1,030,612	71,722	144,983	543,799	49,845
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	33	-	33	-	190,834	31,493	11,779	143,936	2,553	1,073
FOREST SERVICE	33	-	33	-	22,326	14,336	7,990	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	168,508	17,157	3,789	143,936	2,553	1,073
AGRICULTURAL RESEARCH	-	-	-	-	114,941	8,358	3,789	101,721	-	1,073
COOPERATIVE RESEARCH	-	-	-	-	53,567	8,799	-	42,215	2,553	-
DEPARTMENT OF COMMERCE, TOTAL	151	-	151	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	151	-	151	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	17,304	608	10,936	5,760	39,233	12,608	3,028	1,047	21,810	740
DEPARTMENT OF THE ARMY	3,534	-	2,142	1,392	19,507	816	206	-	18,485	-
DEPARTMENT OF THE NAVY	3,778	-	3,778	-	13,449	9,098	1,026	-	3,325	-
DEPARTMENT OF THE AIR FORCE	5,614	-	4,894	720	5,230	2,694	1,796	-	-	740
DEFENSE AGENCIES	4,378	608	122	3,648	1,047	-	-	1,047	-	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	27,306	27,306	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	42,931	18,422	11,698	12,811	1,395,243	837,768	-	-	512,152	45,323
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	30,120	18,422	11,698	-	56,423	44,541	-	-	7,374	4,508
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,100	-	-	-	1,100	-
HUMAN DEVELOPMENT SERVICES	-	-	-	-	2,305	-	-	-	2,305	-
NATIONAL INSTITUTES OF HEALTH	12,811	-	-	12,811	1,335,415	793,227	-	-	501,373	40,815
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	6,000	5,970	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	5,400	5,400	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,556	-	756	1,800	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,556	-	756	1,800	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	64	-	64	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	64	-	64	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	6,086	-	6,086	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	292	292	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	14,583	11,518	93	2,972	16,944	16,944	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,930	6,716	4,214	-	134,510	90,881	40,935	-	-	2,694
SMITHSONIAN INSTITUTION	-	-	-	-	14,742	4,848	9,894	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,501	1,501	-	-	-	-
VETERANS ADMINISTRATION	1,024	1,019	5	-	8,270	1,001	-	-	7,269	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	94,248	38,920	30,439	24,889	1,904,042	1,062,992	81,843	157,264	551,435	50,508
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31	-	31	-	206,729	34,540	11,430	157,264	2,375	1,120
FOREST SERVICE	31	-	31	-	20,888	13,413	7,475	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	185,841	21,127	3,955	157,264	2,375	1,120
AGRICULTURAL RESEARCH	-	-	-	-	119,962	8,723	3,955	106,164	-	1,120
COOPERATIVE RESEARCH	-	-	-	-	65,879	12,404	-	51,100	2,375	-
DEPARTMENT OF COMMERCE, TOTAL	175	-	175	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	175	-	175	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	19,716	-	12,032	7,684	45,831	13,456	3,771	-	27,704	900
DEPARTMENT OF THE ARMY	3,842	-	1,987	1,855	23,755	1,042	355	-	22,358	-
DEPARTMENT OF THE NAVY	4,045	-	4,045	-	13,976	9,054	1,176	-	3,746	-
DEPARTMENT OF THE AIR FORCE	6,800	-	6,000	800	6,500	3,360	2,240	-	-	900
DEFENSE AGENCIES	5,029	-	-	5,029	1,600	-	-	-	1,600	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	29,810	29,810	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	49,505	23,056	12,837	13,612	1,406,562	846,623	-	-	513,741	46,198
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	35,893	23,056	12,837	-	63,363	50,160	-	-	7,989	5,214
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
HUMAN DEVELOPMENT SERVICES	-	-	-	-	2,017	-	-	-	2,017	-
NATIONAL INSTITUTES OF HEALTH	13,612	-	-	13,612	1,340,182	796,463	-	-	502,735	40,984
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	6,100	6,070	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	5,500	5,500	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,336	-	836	500	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,336	-	836	500	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	63	-	63	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	63	-	63	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	9,983	-	9,983	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	82	82	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	10,467	7,274	100	3,093	16,916	16,916	-	-	-	-
NATIONAL SCIENCE FOUNDATION	11,691	7,331	4,360	-	155,872	107,374	46,223	-	-	2,275
SMITHSONIAN INSTITUTION	-	-	-	-	15,900	5,464	10,436	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,650	1,650	-	-	-	-
VETERANS ADMINISTRATION	1,264	1,259	5	-	8,607	1,007	-	-	7,600	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	922,408	209,814	204,156	499,589	8,849	527,867	165,413	208,002	133,053	21,399
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	25,400	-	23,583	1,817	-	4,287	2,231	2,056	-	-
FOREST SERVICE	2,189	-	1,665	524	-	3,146	1,203	1,943	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,211	-	21,918	1,293	-	1,141	1,028	113	-	-
AGRICULTURAL RESEARCH	20,505	-	19,212	1,293	-	825	712	113	-	-
COOPERATIVE RESEARCH	2,706	-	2,706	-	-	316	316	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	6,636	731	1,021	4,884	-	10,127	6,811	60	3,256	-
NATIONAL BUREAU OF STANDARDS	5,672	490	901	4,281	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	964	241	120	603	-	10,127	6,811	60	3,256	-
DEPARTMENT OF DEFENSE, TOTAL	73,096	8,946	20,897	41,615	1,638	62,544	13,207	6,637	35,351	7,349
DEPARTMENT OF THE ARMY	9,263	-	3,738	4,653	872	6,948	4,710	1,947	-	291
DEPARTMENT OF THE NAVY	37,900	5,125	8,182	24,593	-	47,698	3,272	3,413	34,985	6,428
DEPARTMENT OF THE AIR FORCE	22,486	3,821	8,977	9,688	-	7,132	5,225	1,277	-	630
DEFENSE AGENCIES	3,447	-	-	2,681	766	766	-	-	766	-
DEPARTMENT OF ENERGY, TOTAL	325,387	-	47,933	277,454	-	3,960	-	3,960	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	32,936	-	29,827	3,109	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	214	-	214	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	32,722	-	29,613	3,109	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	12,944	-	10,211	1,333	1,400	118,663	150	103,334	13,891	1,288
BUREAU OF MINES	3,700	-	2,300	-	1,400	765	-	765	-	-
GEOLOGICAL SURVEY	8,894	-	7,661	1,233	-	115,340	-	101,469	13,871	-
OFFICE OF THE SECRETARY	-	-	-	-	-	898	-	-	-	898
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	250	100	-	1,660	150	1,100	20	390
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	1,683	-	1,346	337	-	305	305	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,652	-	1,308	1,344	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	243,099	147,106	8,936	81,265	5,792	126,690	71,623	31,224	11,138	12,705
NATIONAL SCIENCE FOUNDATION	189,750	46,614	56,686	86,431	19	198,594	70,928	58,939	68,670	57
SMITHSONIAN INSTITUTION	6,417	6,417	-	-	-	2,697	158	1,792	747	-
TENNESSEE VALLEY AUTHORITY	2,408	-	2,408	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,031,423	241,911	223,236	548,491	17,785	578,400	184,313	220,748	146,160	27,179
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	24,127	-	22,226	1,901	-	4,469	2,300	2,169	-	-
FOREST SERVICE	2,335	-	1,776	559	-	3,353	1,282	2,071	-	-
SCIENCE & EDUCATION ADMINISTRATION	21,792	-	20,450	1,342	-	1,116	1,018	98	-	-
AGRICULTURAL RESEARCH	18,773	-	17,431	1,342	-	763	665	98	-	-
COOPERATIVE RESEARCH	3,019	-	3,019	-	-	353	353	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	8,832	810	1,560	6,462	-	10,790	7,261	64	3,465	-
NATIONAL BUREAU OF STANDARDS	7,805	553	1,432	5,820	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,027	257	128	642	-	10,790	7,261	64	3,465	-
DEPARTMENT OF DEFENSE, TOTAL	91,489	10,384	23,203	55,411	2,491	78,813	15,079	10,266	44,260	9,208
DEPARTMENT OF THE ARMY	10,034	-	4,035	5,089	910	7,428	4,948	2,091	-	389
DEPARTMENT OF THE NAVY	42,967	6,350	9,748	26,869	-	57,467	3,967	3,533	41,828	8,139
DEPARTMENT OF THE AIR FORCE	23,349	4,034	9,238	10,077	-	8,446	6,164	1,602	-	680
DEFENSE AGENCIES	15,139	-	182	13,376	1,581	5,472	-	3,040	2,432	-
DEPARTMENT OF ENERGY, TOTAL	345,034	-	53,376	291,658	-	6,100	-	6,100	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	39,785	-	36,028	3,757	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	213	-	213	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	39,572	-	35,815	3,757	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,444	-	12,311	1,533	1,600	131,410	150	114,661	14,209	2,390
BUREAU OF MINES	6,250	-	4,650	-	1,600	750	-	750	-	-
GEOLOGICAL SURVEY	8,844	-	7,411	1,433	-	127,000	-	112,811	14,189	-
OFFICE OF THE SECRETARY	-	-	-	-	-	2,000	-	-	-	2,000
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	250	100	-	1,660	150	1,100	20	390
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,638	-	2,238	400	-	400	400	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,933	-	1,448	1,485	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	283,033	172,234	7,158	89,962	13,679	133,048	83,532	24,638	11,412	13,466
NATIONAL SCIENCE FOUNDATION	208,624	51,539	61,148	95,922	15	210,445	75,431	60,895	72,004	2,115
SMITHSONIAN INSTITUTION	6,944	6,944	-	-	-	2,925	160	1,955	810	-
TENNESSEE VALLEY AUTHORITY	2,540	-	2,540	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,168,528	296,266	248,079	604,615	19,568	633,842	208,104	239,952	157,838	27,948
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	24,586	-	22,662	1,924	-	4,262	2,222	2,040	-	-
FOREST SERVICE	2,184	-	1,661	523	-	3,138	1,200	1,938	-	-
SCIENCE & EDUCATION ADMINISTRATION	22,402	-	21,001	1,401	-	1,124	1,022	102	-	-
AGRICULTURAL RESEARCH	19,593	-	18,192	1,401	-	796	694	102	-	-
COOPERATIVE RESEARCH	2,809	-	2,809	-	-	328	328	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	11,002	988	1,935	8,079	-	11,719	7,882	70	3,767	-
NATIONAL BUREAU OF STANDARDS	9,887	709	1,797	7,381	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,115	279	138	698	-	11,719	7,882	70	3,767	-
DEPARTMENT OF DEFENSE, TOTAL	109,851	10,877	26,167	69,276	3,531	91,185	17,646	16,661	47,526	9,352
DEPARTMENT OF THE ARMY	12,652	-	5,136	6,586	930	9,070	5,974	2,617	-	479
DEPARTMENT OF THE NAVY	43,157	6,377	9,731	27,049	-	57,529	4,072	3,474	41,890	8,093
DEPARTMENT OF THE AIR FORCE	26,300	4,500	11,300	10,500	-	10,280	7,600	1,900	-	780
DEFENSE AGENCIES	27,742	-	-	25,141	2,601	14,306	-	8,670	5,636	-
DEPARTMENT OF ENERGY, TOTAL	384,637	-	64,404	320,233	-	10,800	-	10,800	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	40,051	-	36,278	3,773	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	315	-	315	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	39,736	-	35,963	3,773	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	13,830	-	10,655	1,575	1,600	129,959	150	114,231	14,188	1,390
BUREAU OF MINES	5,000	-	3,400	-	1,600	650	-	650	-	-
GEOLOGICAL SURVEY	8,480	-	7,005	1,475	-	126,649	-	112,481	14,168	-
OFFICE OF THE SECRETARY	-	-	-	-	-	1,000	-	-	-	1,000
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	250	100	-	1,660	150	1,100	20	390
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	5,200	-	4,500	700	-	700	700	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,068	-	1,099	969	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	333,502	220,154	7,682	91,249	14,417	151,102	97,262	27,895	11,254	14,691
NATIONAL SCIENCE FOUNDATION	233,733	56,812	70,064	106,837	20	231,006	82,080	66,169	80,242	2,515
SMITHSONIAN INSTITUTION	7,435	7,435	-	-	-	3,109	162	2,086	861	-
TENNESSEE VALLEY AUTHORITY	2,633	-	2,633	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	344,181	63,757	15,191	16,134	10,784	47,530	24,365	128,516	37,904
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	12,458	-	-	689	2,228	87	485	-	8,969
FOREST SERVICE	2,776	-	-	308	894	31	185	-	1,358
SCIENCE & EDUCATION ADMINISTRATION	9,682	-	-	381	1,334	56	300	-	7,611
AGRICULTURAL RESEARCH	7,949	-	-	381	1,334	56	300	-	5,878
COOPERATIVE RESEARCH	1,733	-	-	-	-	-	-	-	1,733
DEPARTMENT OF COMMERCE, TOTAL	3,298	-	-	-	931	510	433	-	1,424
MARITIME ADMINISTRATION	2,700	-	-	-	810	270	270	-	1,350
NATIONAL BUREAU OF STANDARDS	237	-	-	-	-	-	163	-	74
NAT'L OCEANIC & ATMOSPHERIC ADMIN	361	-	-	-	121	240	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	99,217	15,703	3,103	1,122	420	24,354	13,532	38,737	2,246
DEPARTMENT OF THE ARMY	12,406	1,387	-	10	420	4,930	2,081	3,493	85
DEPARTMENT OF THE NAVY	19,944	1,251	-	-	-	2,280	4,799	11,614	-
DEPARTMENT OF THE AIR FORCE	47,794	13,065	3,103	1,112	-	9,484	6,652	12,983	1,395
DEFENSE AGENCIES	19,073	-	-	-	-	7,660	-	10,647	766
DEPARTMENT OF ENERGY, TOTAL	69,241	-	-	1,290	-	-	-	67,951	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	10,753	-	-	-	-	-	-	-	10,753
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	73	-	-	-	-	-	-	-	73
NATIONAL INSTITUTES OF HEALTH	10,680	-	-	-	-	-	-	-	10,680
DEPARTMENT OF THE INTERIOR, TOTAL	5,536	-	-	200	539	493	1,004	2,405	895
BUREAU OF MINES	3,435	-	-	-	-	350	350	2,385	350
BUREAU OF RECLAMATION	97	-	-	-	22	75	-	-	-
OFFICE OF THE SECRETARY	829	-	-	-	117	58	654	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	200	400	10	-	20	545
OTHER AGENCIES									
GENERAL SERVICES ADMINISTRATION	1,679	-	-	1,300	67	-	-	-	312
NATIONAL AERONAUTICS & SPACE ADMIN	72,201	47,472	12,088	2,302	10	2,272	2,189	4,601	1,267
NATIONAL SCIENCE FOUNDATION	69,791	582	-	9,231	6,589	19,814	8,715	14,822	12,038
TENNESSEE VALLEY AUTHORITY	7	-	-	-	-	-	7	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	385,977	71,243	15,533	16,898	11,295	49,776	26,760	148,867	45,605
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	12,782	-	-	766	1,973	66	432	-	9,545
FOREST SERVICE	2,960	-	-	329	954	33	197	-	1,447
SCIENCE & EDUCATION ADMINISTRATION	9,822	-	-	437	1,019	33	235	-	8,098
AGRICULTURAL RESEARCH	7,888	-	-	437	1,019	33	235	-	6,164
COOPERATIVE RESEARCH	1,934	-	-	-	-	-	-	-	1,934
DEPARTMENT OF COMMERCE, TOTAL	3,459	-	-	252	906	515	260	208	1,318
MARITIME ADMINISTRATION	2,600	-	-	-	780	260	260	-	1,300
NATIONAL BUREAU OF STANDARDS	478	-	-	252	-	-	-	208	18
NAT'L OCEANIC & ATMOSPHERIC ADMIN	381	-	-	-	126	255	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	110,290	17,550	3,460	1,140	667	24,016	15,146	45,486	2,825
DEPARTMENT OF THE ARMY	13,902	1,531	-	-	667	5,500	2,289	3,766	149
DEPARTMENT OF THE NAVY	22,919	1,465	-	-	-	2,571	5,469	13,414	-
DEPARTMENT OF THE AIR FORCE	52,797	14,554	3,460	1,140	-	10,473	7,388	14,322	1,460
DEFENSE AGENCIES	20,672	-	-	-	-	5,472	-	13,984	1,216
DEPARTMENT OF ENERGY, TOTAL	76,353	-	-	1,600	-	350	-	73,563	840
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	13,002	-	-	-	-	-	-	-	13,002
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	87	-	-	-	-	-	-	-	87
NATIONAL INSTITUTES OF HEALTH	12,915	-	-	-	-	-	-	-	12,915
DEPARTMENT OF THE INTERIOR, TOTAL	8,782	-	-	200	610	600	1,607	4,820	945
BUREAU OF MINES	6,000	-	-	-	-	400	400	4,800	400
BUREAU OF RECLAMATION	90	-	-	-	-	90	-	-	-
OFFICE OF THE SECRETARY	1,517	-	-	-	210	100	1,207	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	200	400	10	-	20	545
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	300	-	-	300	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	79,860	53,052	12,073	2,549	20	3,409	1,972	5,390	1,395
NATIONAL SCIENCE FOUNDATION	81,142	641	-	10,091	7,119	20,820	7,336	19,400	15,735
TENNESSEE VALLEY AUTHORITY	7	-	-	-	-	-	7	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	422,897	76,605	16,400	19,493	12,202	55,792	29,634	166,581	46,190
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	12,801	-	-	764	1,956	65	431	-	9,585
FOREST SERVICE	2,770	-	-	308	892	31	185	-	1,354
SCIENCE & EDUCATION ADMINISTRATION	10,031	-	-	456	1,064	34	246	-	8,231
AGRICULTURAL RESEARCH	8,232	-	-	456	1,064	34	246	-	6,432
COOPERATIVE RESEARCH	1,799	-	-	-	-	-	-	-	1,799
DEPARTMENT OF COMMERCE, TOTAL	3,300	-	-	255	857	520	240	210	1,218
MARITIME ADMINISTRATION	2,400	-	-	-	720	240	240	-	1,200
NATIONAL BUREAU OF STANDARDS	483	-	-	255	-	-	-	210	18
NAT'L OCEANIC & ATMOSPHERIC ADMIN	417	-	-	-	137	280	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	122,248	20,657	3,750	1,220	520	26,279	17,001	50,561	2,260
DEPARTMENT OF THE ARMY	17,496	1,982	-	-	520	6,943	2,974	4,887	190
DEPARTMENT OF THE NAVY	22,740	1,500	-	-	-	2,501	5,652	13,087	-
DEPARTMENT OF THE AIR FORCE	61,204	17,175	3,750	1,220	-	12,500	8,375	16,634	1,550
DEFENSE AGENCIES	20,808	-	-	-	-	4,335	-	15,953	520
DEPARTMENT OF ENERGY, TOTAL	88,024	-	-	2,084	-	390	-	83,870	1,680
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	13,069	-	-	-	-	-	-	-	13,069
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	101	-	-	-	-	-	-	-	101
NATIONAL INSTITUTES OF HEALTH	12,968	-	-	-	-	-	-	-	12,968
DEPARTMENT OF THE INTERIOR, TOTAL	7,549	-	-	200	599	609	1,526	3,670	945
BUREAU OF MINES	4,850	-	-	-	-	400	400	3,650	400
BUREAU OF RECLAMATION	100	-	-	-	-	100	-	-	-
OFFICE OF THE SECRETARY	1,424	-	-	-	199	99	1,126	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	200	400	10	-	20	545
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	1,000	-	-	800	-	200	-	-	-
GENERAL SERVICES ADMINISTRATION	50	-	-	-	50	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	83,289	55,229	12,650	2,675	25	3,578	2,057	5,635	1,440
NATIONAL SCIENCE FOUNDATION	91,559	719	-	11,495	8,195	24,151	8,371	22,635	15,993
TENNESSEE VALLEY AUTHORITY	8	-	-	-	-	-	8	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	92,231	51,038	39,621	1,572	124,198	11,957	33,519	3,245	18,484	56,993
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,165	1,165	-	-	16,859	2	15,076	-	1,557	224
ECON, STAT & COOPERATIVES SERVICE	-	-	-	-	3,924	-	3,492	-	314	118
FOREST SERVICE	678	678	-	-	1,080	-	432	-	648	-
SCIENCE & EDUCATION ADMINISTRATION	487	487	-	-	11,855	2	11,152	-	595	106
AGRICULTURAL RESEARCH	487	487	-	-	614	2	506	-	-	106
COOPERATIVE RESEARCH	-	-	-	-	11,241	-	10,646	-	595	-
DEPARTMENT OF COMMERCE, TOTAL	1,001	639	362	-	2,690	-	2,690	-	-	-
BUREAU OF THE CENSUS	398	398	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	2,690	-	2,690	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	603	241	362	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	31,093	16,201	13,360	1,532	1,502	-	49	-	1,453	-
DEPARTMENT OF THE ARMY	5,120	3,871	1,249	-	162	-	49	-	113	-
DEPARTMENT OF THE NAVY	8,098	5,097	3,001	-	1,340	-	-	-	1,340	-
DEPARTMENT OF THE AIR FORCE	8,683	7,233	1,450	-	-	-	-	-	-	-
DEFENSE AGENCIES	9,192	-	7,660	1,532	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	7,398	4,809	2,589	-	-	-	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,651	3,651	-	-	37,566	313	3,784	76	7,864	25,529
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	302	302	-	-	7,289	313	99	60	6,116	701
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	18,276	-	-	-	-	18,276
NATIONAL INSTITUTES OF HEALTH	3,349	3,349	-	-	1,808	-	-	-	-	1,808
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,120	-	134	16	226	4,744
OFFICE OF THE SECRETARY	-	-	-	-	5,073	-	3,551	-	1,522	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,601	978	1,583	40	500	-	200	200	50	50
BUREAU OF MINES	700	700	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,850	278	1,572	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	11	-	11	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	12,107	-	-	-	3,848	8,259
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	12,107	-	-	-	3,848	8,259
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,614	-	773	-	111	2,730
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,464	-	623	-	111	2,730
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	150	-	150	-	-	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	452	-	452	-	-	-
GENERAL SERVICES ADMINISTRATION	-	-	-	-	90	-	90	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,973	675	1,298	-	5	-	-	-	-	5
NATIONAL SCIENCE FOUNDATION	43,349	22,920	20,429	-	36,425	5,948	10,405	2,969	3,601	13,502
SMITHSONIAN INSTITUTION	-	-	-	-	12,388	5,694	-	-	-	6,694

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-46. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	105,797	56,613	43,733	5,451	130,628	13,086	35,775	3,800	18,787	59,180
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,237	1,237	-	-	18,390	2	16,535	-	1,698	155
ECON, STAT & COOPERATIVES SERVICE	-	-	-	-	4,308	-	3,835	-	344	129
FOREST SERVICE	723	723	-	-	1,150	-	460	-	690	-
SCIENCE & EDUCATION ADMINISTRATION	514	514	-	-	12,932	2	12,240	-	664	26
AGRICULTURAL RESEARCH	514	514	-	-	389	2	361	-	-	26
COOPERATIVE RESEARCH	-	-	-	-	12,543	-	11,879	-	664	-
DEPARTMENT OF COMMERCE, TOTAL	1,494	1,008	486	-	1,900	-	1,900	-	-	-
BUREAU OF THE CENSUS	555	555	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,900	-	1,900	-	-	-
NATIONAL BUREAU OF STANDARDS	302	201	101	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	637	252	385	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	37,609	17,899	14,299	5,411	1,867	-	18	-	1,849	-
DEPARTMENT OF THE ARMY	5,301	3,907	1,394	-	176	-	18	-	158	-
DEPARTMENT OF THE NAVY	9,529	6,203	3,326	-	1,691	-	-	-	1,691	-
DEPARTMENT OF THE AIR FORCE	9,466	7,789	1,675	-	-	-	-	-	-	-
DEFENSE AGENCIES	13,315	-	7,904	5,411	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	8,600	5,590	3,010	-	-	-	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	4,404	4,404	-	-	44,284	365	4,595	88	9,302	29,934
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	361	361	-	-	8,590	365	118	72	7,212	823
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	21,700	-	-	-	-	21,700
NATIONAL INSTITUTES OF HEALTH	4,043	4,043	-	-	2,186	-	-	-	-	2,186
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,608	-	137	16	230	5,225
OFFICE OF THE SECRETARY	-	-	-	-	6,200	-	4,340	-	1,860	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,960	1,102	1,818	40	500	-	200	200	50	50
BUREAU OF MINES	800	800	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,120	302	1,818	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	7,144	-	-	-	2,164	4,980
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	7,144	-	-	-	2,164	4,980
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,868	-	1,026	-	112	2,730
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,468	-	626	-	112	2,730
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	400	-	400	-	-	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	445	-	445	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,549	700	1,849	-	25	-	-	-	-	25
NATIONAL SCIENCE FOUNDATION	46,944	24,673	22,271	-	39,524	7,149	11,056	3,512	3,612	14,195
SMITHSONIAN INSTITUTION	-	-	-	-	12,681	5,570	-	-	-	7,111

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	121,278	63,808	47,286	10,184	132,642	14,062	34,276	3,773	19,877	60,654
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,213	1,213	-	-	17,929	21	16,110	-	1,646	171
ECON, STAT & COOPERATIVES SERVICE	-	-	-	-	4,776	-	4,251	-	382	143
FOREST SERVICE	677	677	-	-	1,077	-	431	-	646	-
SCIENCE & EDUCATION ADMINISTRATION	536	536	-	-	12,076	21	11,428	-	618	28
AGRICULTURAL RESEARCH	536	536	-	-	407	21	377	-	-	28
COOPERATIVE RESEARCH	-	-	-	-	11,669	-	11,051	-	618	-
DEPARTMENT OF COMMERCE, TOTAL	1,746	1,223	523	-	900	-	900	-	-	-
BUREAU OF THE CENSUS	742	742	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	900	-	900	-	-	-
NATIONAL BUREAU OF STANDARDS	305	203	102	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	699	278	421	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	44,991	20,304	14,543	10,144	1,771	-	-	-	1,771	-
DEPARTMENT OF THE ARMY	6,660	4,898	1,762	-	135	-	-	-	135	-
DEPARTMENT OF THE NAVY	9,717	6,206	3,511	-	1,636	-	-	-	1,636	-
DEPARTMENT OF THE AIR FORCE	11,100	9,200	1,900	-	-	-	-	-	-	-
DEFENSE AGENCIES	17,514	-	7,370	10,144	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	11,100	7,265	3,835	-	-	-	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	4,479	4,479	-	-	45,907	422	4,176	97	10,270	30,942
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	419	419	-	-	10,047	422	137	83	8,388	1,017
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	23,400	-	-	-	-	23,400
NATIONAL INSTITUTES OF HEALTH	4,060	4,060	-	-	2,195	-	-	-	-	2,195
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	4,665	-	119	14	202	4,330
OFFICE OF THE SECRETARY	-	-	-	-	5,600	-	3,920	-	1,680	-
DEPARTMENT OF THE INTERIOR, TOTAL	3,052	1,132	1,880	40	500	-	200	200	50	50
BUREAU OF MINES	800	800	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,212	332	1,880	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	7,364	-	-	-	2,209	5,155
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	-	-	7,364	-	-	-	2,209	5,155
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,728	-	1,017	-	111	2,600
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,328	-	617	-	111	2,600
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	400	-	400	-	-	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	337	-	337	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,675	720	1,955	-	25	-	-	-	-	25
NATIONAL SCIENCE FOUNDATION	52,022	27,472	24,550	-	41,295	8,065	11,536	3,476	3,820	14,398
SMITHSONIAN INSTITUTION	-	-	-	-	12,886	5,573	-	-	-	7,313

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	6,051,761	2,170,311	1,554,954	169,757	1,178,035	358,078	402,392	61,157	111,777	45,300
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	351,780	237,414	5,309	-	103,707	-	147	-	662	4,541
ECON, STAT & COOPERATIVES SERVICE	28,776	26,867	-	-	1,909	-	-	-	-	-
FOREST SERVICE	69,813	65,548	371	-	3,814	-	16	-	64	-
SCIENCE & EDUCATION ADMINISTRATION	253,191	144,999	4,938	-	97,984	-	131	-	598	4,541
AGRICULTURAL RESEARCH	161,328	142,035	4,938	-	9,453	-	131	-	230	4,541
COOPERATIVE RESEARCH	91,863	2,964	-	-	88,531	-	-	-	368	-
DEPARTMENT OF COMMERCE, TOTAL	168,914	129,834	7,078	-	21,938	126	3,141	-	6,565	232
BUREAU OF THE CENSUS	1,827	1,827	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	3,222	902	-	-	869	-	1,101	-	350	-
MARITIME ADMINISTRATION	4,300	1,054	2,890	-	165	-	191	-	-	-
NATIONAL BUREAU OF STANDARDS	42,615	39,656	1,742	-	218	-	817	-	-	182
NAT'L OCEANIC & ATMOSPHERIC ADMIN	115,865	85,310	2,446	-	20,686	126	1,032	-	6,215	50
NAT'L TELECOMM & INFORMATION ADMIN	1,085	1,085	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,622,134	624,934	802,217	1,342	91,458	51,948	34,229	13,063	999	1,944
DEPARTMENT OF THE ARMY	359,770	254,341	76,791	-	16,108	2,236	9,638	230	157	269
DEPARTMENT OF THE NAVY	271,700	152,989	79,677	-	23,557	13,169	1,450	706	-	152
DEPARTMENT OF THE AIR FORCE	590,627	125,990	398,614	-	38,922	19,600	6,438	-	-	1,063
DEFENSE AGENCIES	392,537	89,941	244,198	1,260	12,651	16,943	15,226	11,858	-	460
DEFENSE CIVIL PREPAREDNESS AGENCY	7,500	1,673	2,937	82	220	-	1,477	269	842	-
DEPARTMENT OF ENERGY, TOTAL	661,709	35,730	136,671	79,192	89,246	261,473	21,053	36,479	458	1,407
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,448,378	338,252	72,842	12,582	705,599	4,133	241,440	1,001	48,558	23,971
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	98,834	18,722	2,662	-	58,788	-	14,272	250	3,008	1,132
CENTER FOR DISEASE CONTROL	60,084	42,618	4,332	-	6,188	-	3,746	-	437	2,763
FOOD & DRUG ADMINISTRATION	64,134	41,093	6,113	-	11,237	-	5,005	-	161	525
HEALTH CARE FINANCING ADMIN	19,400	5,238	6,836	-	1,700	-	970	-	4,656	-
HEALTH RESOURCES ADMINISTRATION	5,000	200	-	-	4,800	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	9,980	3,195	185	-	3,037	-	1,425	-	490	1,648
HUMAN DEVELOPMENT SERVICES	42,938	2,780	1,717	-	22,248	-	11,560	-	4,375	258
NATIONAL INSTITUTE OF EDUCATION	16,340	2,714	817	-	6,046	-	5,423	-	1,340	-
NATIONAL INSTITUTES OF HEALTH	1,051,502	201,947	44,247	12,582	574,973	4,133	178,737	751	17,218	16,914
OFFICE OF ASST'T SECY FOR EDUC	1,316	138	-	-	-	-	1,178	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	27,511	8,900	866	-	8,657	-	7,665	-	892	531
OFFICE OF EDUCATION	13,311	611	2,014	-	6,529	-	3,482	-	475	200
OFFICE OF THE SECRETARY	25,128	250	2,530	-	270	-	7,381	-	14,697	-
SOCIAL SECURITY ADMINISTRATION	12,900	9,846	523	-	1,126	-	596	-	809	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	30,535	10,901	6,296	-	5,664	-	6,941	-	733	-
DEPARTMENT OF THE INTERIOR, TOTAL	164,081	94,572	16,079	193	18,205	156	1,907	-	32,969	-
BUREAU OF LAND MANAGEMENT	1,038	467	-	-	571	-	-	-	-	-
BUREAU OF MINES	48,400	35,200	10,200	-	2,200	-	800	-	-	-
BUREAU OF RECLAMATION	10,446	5,536	1,567	-	2,124	-	-	-	1,219	-
GEOLOGICAL SURVEY	33,833	32,609	988	-	236	-	-	-	-	-
NATIONAL PARK SERVICE	7,700	3,512	114	-	3,816	-	178	-	80	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2,194	198	510	193	208	156	929	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	10,800	500	2,500	-	7,700	-	-	-	100	-
US FISH & WILDLIFE SERVICE	49,670	16,550	200	-	1,350	-	-	-	31,570	-
DEPARTMENT OF JUSTICE, TOTAL	31,022	2,187	467	-	3,267	-	24,013	100	988	-
BUREAU OF PRISONS	679	210	-	-	81	-	-	-	388	-
DRUG ENFORCEMENT ADMINISTRATION	500	100	400	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	189	158	31	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	28,600	1,638	-	-	3,146	-	23,116	100	600	-
OFFICE OF THE ATTORNEY GENERAL	1,054	81	36	-	40	-	897	-	-	-
DEPARTMENT OF LABOR, TOTAL	22,033	6,259	4,036	-	5,858	3	5,862	-	15	-
BUREAU OF LABOR STATISTICS	782	722	60	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,737	3,026	122	-	370	3	216	-	-	-
EMPLOYMENT & TRAINING ADMIN	11,403	1,019	1,264	-	4,373	-	4,732	-	15	-
LABOR-MANAGEMENT SERVICES ADMIN	2,611	856	1,012	-	177	-	566	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	1,300	200	869	-	231	-	-	-	-	-
OFFICE OF THE SECRETARY	2,200	436	709	-	707	-	348	-	-	-
DEPARTMENT OF STATE, TOTAL	49,126	3,378	4,090	45	16,892	-	13,899	-	-	10,822
AGENCY FOR INTERNAT'L DEVELOPMENT	46,648	2,990	2,848	45	16,368	-	13,597	-	-	10,800
DEPARTMENTAL FUNDS	2,478	388	1,242	-	524	-	302	-	-	22

CONTINUED ON NEXT PAGE

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,500	21,790	31,179	-	1,500	-	6,080	-	5,951	-
COAST GUARD	2,300	701	1,599	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	6,800	1,519	5,281	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	1,607	1,484	-	-	-	1,635	-	174	-
FEDERAL RAILROAD ADMINISTRATION	9,200	7,165	2,035	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,000	8,667	19,433	-	1,200	-	4,401	-	4,299	-
OFFICE OF THE SECRETARY	4,100	1,431	1,347	-	300	-	44	-	978	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	100	100	-	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,114	3,076	661	-	-	-	-	364	13	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	414	50	-	-	-	-	-	364	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,900	1,501	399	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,800	1,525	262	-	-	-	-	-	13	-
OTHER AGENCIES										
ACTION	231	14	-	-	-	-	217	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	1,685	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	320	17	193	-	-	-	-	-	110	-
CIVIL AERONAUTICS BOARD	711	711	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,961	20	-	-	-	-	1,941	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	917	414	503	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	246,660	111,509	60,442	-	45,549	-	17,175	1,381	9,522	1,082
FEDERAL COMMUNICATIONS COMMISSION	2,400	1,775	625	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,945	1,545	89	-	169	51	91	-	-	-
FEDERAL HOME LOAN BANK BOARD	977	931	-	-	46	-	-	-	-	-
FEDERAL TRADE COMMISSION	904	904	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	369	37	300	-	-	-	32	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	115	93	22	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	250	250	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	370	370	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	865,438	423,668	389,005	-	27,957	18,473	5,493	465	172	205
NATIONAL SCIENCE FOUNDATION	65,462	6,733	9,858	30	32,143	199	11,397	301	3,858	943
NUCLEAR REGULATORY COMMISSION	133,891	11,222	5,569	76,373	7,981	21,354	3,087	7,993	204	108
OFFICE OF PERSONNEL MANAGEMENT	987	987	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	9,719	6,009	-	-	154	-	3,556	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,495	434	1,423	-	109	162	312	10	-	45
US INTERNATIONAL TRADE COMMISSION	3,119	3,119	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	90,509	89,537	-	-	593	-	379	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL: UNITED STATES AND TERRITORIES: INDUSTRIAL FIRMS	FFRDCs ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCs ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCs ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	6,684,055	2,389,502	1,772,543	178,086	1,290,517	369,949	435,451	81,036	121,972	44,999
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	385,641	262,766	395	-	118,087	-	17	-	436	3,940
ECON, STAT & COOPERATIVES SERVICE	31,592	29,656	-	-	1,936	-	-	-	-	-
FOREST SERVICE	74,430	69,969	395	-	3,981	-	17	-	68	-
SCIENCE & EDUCATION ADMINISTRATION	279,619	163,141	-	-	112,170	-	-	-	368	3,940
AGRICULTURAL RESEARCH	177,116	159,805	-	-	14,171	-	-	-	-	3,940
COOPERATIVE RESEARCH	102,503	4,136	-	-	97,999	-	-	-	368	-
DEPARTMENT OF COMMERCE, TOTAL	189,573	143,866	9,063	-	25,392	100	3,225	-	7,770	157
BUREAU OF THE CENSUS	2,018	2,018	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	3,600	575	1,010	-	395	-	1,410	-	210	-
MARITIME ADMINISTRATION	4,600	1,474	2,994	-	132	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	45,074	42,167	1,750	-	200	-	800	-	-	157
NAT'L OCEANIC & ATMOSPHERIC ADMIN	131,789	95,140	3,309	-	24,665	100	1,015	-	7,560	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	2,492	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,774,302	664,507	906,585	1,204	97,518	51,786	34,202	14,888	722	2,890
DEPARTMENT OF THE ARMY	375,646	262,862	84,894	-	15,265	1,952	8,978	370	150	1,175
DEPARTMENT OF THE NAVY	293,300	167,002	83,759	-	26,319	13,571	1,480	877	-	292
DEPARTMENT OF THE AIR FORCE	636,030	138,581	429,257	-	41,914	18,200	6,933	-	-	1,145
DEFENSE AGENCIES	466,126	94,918	306,647	1,152	13,864	18,063	15,771	13,433	-	278
DEFENSE CIVIL PREPAREDNESS AGENCY	5,200	1,144	2,028	52	156	-	1,040	208	572	-
DEPARTMENT OF ENERGY, TOTAL	711,543	47,721	148,695	78,790	85,252	265,549	34,554	52,185	210	587
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,580,144	367,874	87,168	14,107	757,802	4,797	264,984	844	52,690	29,878
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	121,025	21,227	3,818	-	69,012	-	22,313	-	4,034	621
CENTER FOR DISEASE CONTROL	67,978	45,662	5,87	-	8,700	-	3,800	-	196	3,746
FOOD & DRUG ADMINISTRATION	61,967	43,204	4,[illegible]	-	8,351	-	3,941	-	258	1,450
HEALTH CARE FINANCING ADMIN	32,500	8,775	[illegible]	-	700	-	1,625	-	9,700	-
HEALTH RESOURCES ADMINISTRATION	1,100	44	-	-	1,056	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	9,087	3,300	185	-	3,037	-	1,425	-	490	650
HUMAN DEVELOPMENT SERVICES	50,163	3,217	1,783	-	23,204	-	13,939	-	3,999	4,021
NATIONAL INSTITUTE OF EDUCATION	20,800	3,495	1,040	-	7,696	-	6,864	-	1,705	-
NATIONAL INSTITUTES OF HEALTH	1,133,202	217,098	48,122	14,107	617,59	4,797	193,202	844	18,740	18,697
OFFICE OF ASST'T SECY FOR EDUC	1,288	151	-	-	-	-	1,137	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	27,564	8,995	803	-	8,852	-	7,455	-	766	693
OFFICE OF EDUCATION	18,470	1,016	5,366	-	8,611	-	3,402	-	75	-
OFFICE OF THE SECRETARY	18,800	188	2,256	-	188	-	5,076	-	11,092	-
SOCIAL SECURITY ADMINISTRATION	16,200	11,502	1,458	-	800	-	805	-	1,635	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	31,821	10,612	7,520	-	5,410	-	7,637	-	636	-
DEPARTMENT OF THE INTERIOR, TOTAL	209,279	105,496	39,350	50	23,210	100	1,437	-	39,634	-
BUREAU OF LAND MANAGEMENT	1,121	482	-	-	639	-	-	-	-	-
BUREAU OF MINES	76,600	40,900	32,900	-	2,000	-	800	-	-	-
BUREAU OF RECLAMATION	10,926	5,272	1,700	-	754	-	-	-	1,200	-
GEOLOGICAL SURVEY	36,067	34,347	1,390	-	330	-	-	-	-	-
NATIONAL PARK SERVICE	8,085	3,687	120	-	4,007	-	187	-	84	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	1,000	50	3,180	100	450	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,500	600	2,000	-	8,800	-	-	-	100	-
US FISH & WILDLIFE SERVICE	60,000	20,010	240	-	1,500	-	-	-	38,250	-
DEPARTMENT OF JUSTICE, TOTAL	23,287	2,351	1,878	-	3,383	-	14,217	350	1,108	-
BUREAU OF PRISONS	1,461	661	-	-	242	-	-	-	556	-
DRUG ENFORCEMENT ADMINISTRATION	1,200	400	800	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	281	18	263	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	18,900	1,252	300	-	2,241	-	14,207	350	550	-
OFFICE OF THE ATTORNEY GENERAL	1,445	20	515	-	900	-	10	-	-	-
DEPARTMENT OF LABOR, TOTAL	28,269	9,099	9,135	-	5,193	-	4,786	-	56	-
BUREAU OF LABOR STATISTICS	912	855	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,813	5,813	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	11,415	997	1,658	-	4,336	-	4,368	-	56	-
LABOR-MANAGEMENT SERVICES ADMIN	2,783	688	1,000	-	737	-	358	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	800	500	120	-	120	-	60	-	-	-
DEPARTMENT OF STATE, TOTAL	78,879	7,120	3,082	-	44,882	79	20,117	-	-	3,599
AGENCY FOR INTERNAT'L DEVELOPMENT	76,325	[illegible],690	2,060	-	44,297	-	19,727	-	-	3,551
DEPARTMENTAL FUNDS	2,554	430	1,022	-	585	79	390	-	-	48

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TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL						
			UNITED STATES AND TERRITORIES						FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	77,300	25,491	39,128	-	1,320	-	6,382	-	4,979	-
COAST GUARD	6,200	1,889	4,191	-	120	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	2,001	6,999	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	1,758	1,732	-	-	-	1,907	-	203	-
FEDERAL RAILROAD ADMINISTRATION	8,500	6,619	1,881	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	38,600	8,809	19,757	-	1,200	-	4,475	-	4,359	-
OFFICE OF THE SECRETARY	3,600	1,620	1,980	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,800	2,212	2,588	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	583	-	-	-	-	-	-	417	-
DEPARTMENT OF THE TREASURY, TOTAL	4,794	2,738	1,617	-	-	-	-	414	25	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	494	80	-	-	-	-	-	414	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,100	1,383	717	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,200	1,275	900	-	-	-	-	-	25	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,703	1,703	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	830	830	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	10	-	-	-	-	990	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,800	1,844	1,856	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	257,830	113,453	69,996	-	47,030	-	17,640	1,500	9,900	2,311
FEDERAL COMMUNICATIONS COMMISSION	3,400	1,649	1,751	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,763	1,363	89	-	169	51	91	-	-	-
FEDERAL HOME LOAN BANK BOARD	1,210	1,092	-	-	118	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,076	1,076	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	722	50	640	-	-	-	32	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	164	63	101	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	265	265	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	370	370	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	963,910	472,590	429,719	-	31,000	23,627	6,117	475	180	202
NATIONAL SCIENCE FOUNDATION	69,991	7,352	12,025	35	36,058	160	10,366	280	3,015	700
NUCLEAR REGULATORY COMMISSION	151,580	14,304	4,900	85,900	7,650	23,700	3,880	10,100	411	735
OFFICE OF PERSONNEL MANAGEMENT	1,024	1,024	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	19,391	15,210	-	-	192	-	3,989	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3,076	760	1,600	-	200	-	516	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,285	3,285	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	102,233	101,510	-	-	551	-	172	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,055,703	2,511,627	1,953,363	201,437	1,287,079	395,415	437,975	81,033	133,115	54,659
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	368,200	252,422	396	-	110,628	-	17	-	437	4,300
ECON, STAT & COOPERATIVES SERVICE	35,024	33,088	-	-	1,936	-	-	-	-	-
FOREST SERVICE	69,645	65,899	396	-	3,263	-	17	-	70	-
SCIENCE & EDUCATION ADMINISTRATION	263,531	153,435	-	-	105,429	-	-	-	367	4,300
AGRICULTURAL RESEARCH	168,174	149,028	-	-	14,846	-	-	-	-	4,300
COOPERATIVE RESEARCH	95,357	4,407	-	-	90,583	-	-	-	367	-
DEPARTMENT OF COMMERCE, TOTAL	199,351	155,333	7,279	-	26,465	735	1,397	200	7,775	167
BUREAU OF THE CENSUS	2,241	2,241	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	256	448	-	176	-	640	-	80	-
MARITIME ADMINISTRATION	3,700	1,188	2,413	-	99	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	46,755	45,435	750	-	200	-	300	-	-	70
NAT'L OCEANIC & ATMOSPHERIC ADMIN	141,995	103,153	3,668	-	25,990	735	457	200	7,695	97
NAT'L TELECOMM & INFORMATION ADMIN	3,060	3,060	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,975,651	740,827	1,031,043	863	98,642	55,543	32,419	13,059	1,499	1,756
DEPARTMENT OF THE ARMY	429,145	276,788	125,681	-	15,276	621	9,914	291	300	276
DEPARTMENT OF THE NAVY	295,300	176,598	74,297	-	27,165	14,355	1,575	1,060	-	250
DEPARTMENT OF THE AIR FORCE	683,416	149,363	461,237	-	45,037	19,100	7,449	-	-	1,230
DEFENSE AGENCIES	556,890	135,680	365,577	754	10,839	21,467	11,301	11,272	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	10,900	2,398	4,251	109	327	-	2,180	436	1,199	-
DEPARTMENT OF ENERGY, TOTAL	719,505	46,110	130,095	80,994	77,812	282,478	46,613	53,736	219	1,448
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,635,933	388,043	102,950	14,345	766,112	4,484	270,342	797	58,621	30,239
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	148,117	24,753	6,195	-	84,109	-	27,294	-	4,980	786
CENTER FOR DISEASE CONTROL	81,572	54,111	7,533	-	8,700	-	7,331	-	251	3,646
FOOD & DRUG ADMINISTRATION	64,287	44,927	8,074	-	7,095	-	3,960	-	259	1,972
HEALTH CARE FINANCING ADMIN	51,300	13,851	20,520	-	-	-	1,700	-	15,229	-
HEALTH SERVICES ADMINISTRATION	6,917	3,200	198	-	1,839	-	614	-	288	780
HUMAN DEVELOPMENT SERVICES	47,423	3,074	1,966	-	20,910	-	13,025	-	4,063	4,385
NATIONAL INSTITUTE OF EDUCATION	22,100	3,298	1,105	-	8,194	-	7,735	-	1,768	-
NATIONAL INSTITUTES OF HEALTH	1,132,440	217,557	46,974	14,345	619,445	4,484	192,829	797	17,934	18,075
OFFICE OF ASST'T SECY FOR EDUC	1,486	248	-	-	-	-	1,238	-	-	-
OFFICE OF ASST'T SECY FOR HEALTH	24,060	7,915	703	-	7,738	-	6,406	-	703	595
OFFICE OF EDUCATION	18,316	1,570	7,125	-	7,091	-	2,455	-	75	-
OFFICE OF THE SECRETARY	19,115	191	2,067	-	191	-	4,779	-	11,087	-
SOCIAL SECURITY ADMINISTRATION	18,800	13,348	1,692	-	800	-	976	-	1,984	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	27,777	9,022	5,811	-	5,622	-	6,266	-	1,056	-
DEPARTMENT OF THE INTERIOR, TOTAL	208,031	102,259	40,307	100	24,091	100	996	-	40,178	-
BUREAU OF LAND MANAGEMENT	1,007	433	-	-	574	-	-	-	-	-
BUREAU OF MINES	67,200	33,000	31,400	-	2,000	-	800	-	-	-
BUREAU OF RECLAMATION	10,796	5,396	2,100	-	2,100	-	-	-	1,200	-
GEOLOGICAL SURVEY	40,839	38,728	1,781	-	330	-	-	-	-	-
NATIONAL PARK SERVICE	8,489	3,872	126	-	4,207	-	196	-	88	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	1,400	100	3,180	100	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	14,000	600	3,200	-	10,100	-	-	-	100	-
US FISH & WILDLIFE SERVICE	60,720	20,030	300	-	1,600	-	-	-	38,790	-
DEPARTMENT OF JUSTICE, TOTAL	17,338	1,773	3,950	-	5,667	-	5,444	150	354	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	200	800	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	50	150	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	14,428	1,513	2,000	-	4,967	-	5,444	150	354	-
OFFICE OF THE ATTORNEY GENERAL	1,710	10	1,000	-	700	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	28,979	10,192	8,481	-	3,347	-	6,904	-	55	-
BUREAU OF LABOR STATISTICS	864	807	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	7,056	7,056	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	10,961	894	1,004	-	2,490	-	6,518	-	55	-
LABOR-MANAGEMENT SERVICES ADMIN	2,752	689	1,000	-	737	-	326	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	800	500	120	-	120	-	60	-	-	-
DEPARTMENT OF STATE, TOTAL	74,216	4,303	2,789	-	42,291	66	11,465	-	-	13,302
AGENCY FOR INTERNAT'L DEVELOPMENT	72,441	4,015	2,083	-	41,871	-	11,200	-	-	13,272
DEPARTMENTAL FUNDS	1,775	288	706	-	420	66	265	-	-	30

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TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	67,300	22,334	34,024	-	1,320	-	5,466	-	4,156	-
COAST GUARD	7,100	2,163	4,817	-	120	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,800	1,734	6,066	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	1,715	1,661	-	-	-	1,829	-	195	-
FEDERAL RAILROAD ADMINISTRATION	7,500	5,840	1,660	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	31,600	7,160	16,059	-	1,200	-	3,637	-	3,544	-
OFFICE OF THE SECRETARY	2,500	1,111	1,389	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,400	2,028	2,372	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	583	-	-	-	-	-	-	417	-
DEPARTMENT OF THE TREASURY, TOTAL	4,956	2,807	1,858	-	-	-	-	266	25	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	-	-	-	-	-	266	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,900	1,342	558	-	-	-	-	-	-	-
CUSTOMS SERVICE	110	110	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,600	1,275	1,300	-	-	-	-	-	25	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,683	1,683	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	730	730	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	2,000	20	-	-	-	-	1,980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	890	1,110	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	297,420	115,120	94,098	-	46,357	-	23,000	2,000	15,000	1,845
FEDERAL COMMUNICATIONS COMMISSION	3,400	1,790	1,610	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,744	1,344	89	-	169	51	91	-	-	-
FEDERAL HOME LOAN BANK BOARD	1,325	1,185	-	-	140	-	-	-	-	-
FEDERAL TRADE COMMISSION	975	975	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	1,420	53	1,335	-	-	-	32	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	140	100	40	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	300	300	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	370	370	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,037,816	500,881	467,493	-	32,000	29,998	6,587	475	180	202
NATIONAL SCIENCE FOUNDATION	72,770	7,513	11,380	35	38,524	160	11,148	250	3,060	700
NUCLEAR REGULATORY COMMISSION	176,270	22,470	5,600	105,100	7,350	21,800	2,850	10,100	300	700
OFFICE OF PERSONNEL MANAGEMENT	1,254	1,254	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	20,209	15,589	-	-	192	-	4,428	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,575	600	1,375	-	200	-	400	-	-	-
US INTERNATIONAL TRADE COMMISSION	3,648	3,648	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	99,717	99,637	-	-	50	-	30	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	6,052,761	6,684,055	7,055,703
LIFE SCIENCES, TOTAL	1,857,735	2,055,503	2,088,914
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	623,800	668,214	679,525
ENVIRONMENTAL BIOLOGY	120,995	131,441	146,106
AGRICULTURAL	210,946	235,096	225,847
MEDICAL	827,866	897,133	912,401
LIFE SCIENCES, NEC	74,128	123,619	125,035
PSYCHOLOGY, TOTAL	112,084	118,456	134,543
BIOLOGICAL ASPECTS	30,142	33,076	38,086
SOCIAL ASPECTS	50,473	54,077	61,827
PSYCHOLOGICAL SCIENCES, NEC	31,469	31,303	34,630
PHYSICAL SCIENCES, TOTAL	760,989	815,498	895,104
ASTRONOMY	5,789	6,539	6,409
CHEMISTRY	211,401	208,502	231,328
PHYSICS	465,468	520,290	543,598
PHYSICAL SCIENCES, NEC	78,331	80,167	113,769
ENVIRONMENTAL SCIENCES, TOTAL	522,378	601,603	654,663
ATMOSPHERIC	157,822	176,517	192,481
GEOLOGICAL	128,431	149,999	143,488
OCEANOGRAPHY	92,492	93,508	112,628
ENVIRONMENTAL SCIENCES, NEC	143,633	181,579	206,066
MATHEMATICS & COMPUTER SCIENCES, TOTAL	143,321	169,782	194,241
MATHEMATICS	41,006	34,765	34,138
COMPUTER SCIENCES	91,984	108,082	115,292
MATHEMATICS & COMPUTER SCIENCES, NEC	10,331	26,935	44,811
ENGINEERING, TOTAL	2,101,733	2,273,039	2,372,119
AERONAUTICAL	418,350	466,232	514,699
ASTRONAUTICAL	161,763	159,196	158,887
CHEMICAL	136,515	119,777	134,331
CIVIL	134,858	172,495	153,154
ELECTRICAL	414,224	444,341	502,930
MECHANICAL	250,523	286,767	263,063
METALLURGY & MATERIALS	166,121	174,984	160,065
ENGINEERING, NEC	419,379	449,247	484,990
SOCIAL SCIENCES, TOTAL	382,678	429,682	442,783
ANTHROPOLOGY	7,569	5,622	6,872
ECONOMICS	130,327	141,435	144,734
POLITICAL SCIENCE	5,571	6,137	6,056
SOCIOLOGY	41,829	39,912	42,189
SOCIAL SCIENCES, NEC	197,382	236,576	242,932
OTHER SCIENCES, NEC	170,843	220,492	273,336

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,051,761	1,857,735	112,084	760,989	522,378	143,321	2,101,733	382,678	170,843
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	351,780	221,316	70	26,704	10,338	3,548	32,141	57,663	-
ECON, STAT & COOPERATIVES SERVICE	28,776	-	-	-	-	1,439	-	27,337	-
FOREST SERVICE	69,813	42,167	70	2,862	8,797	907	8,796	6,214	-
SCIENCE & EDUCATION ADMINISTRATION	253,191	179,149	-	23,842	1,541	1,202	23,345	24,112	-
AGRICULTURAL RESEARCH	161,328	115,849	-	19,427	966	1,202	20,196	3,688	-
COOPERATIVE RESEARCH	91,863	63,300	-	4,415	575	-	3,149	20,424	-
DEPARTMENT OF COMMERCE, TOTAL	168,914	48,347	154	25,871	61,055	4,272	21,540	7,633	42
BUREAU OF THE CENSUS	1,827	-	154	-	-	1,171	-	460	42
ECONOMIC DEVELOPMENT ADMINISTRATION	3,222	-	-	-	-	-	-	3,222	-
MARITIME ADMINISTRATION	4,300	-	-	-	-	-	3,870	430	-
NATIONAL BUREAU OF STANDARDS	42,615	-	-	21,804	256	2,489	14,825	3,241	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	115,865	48,347	-	4,067	60,799	612	1,760	280	-
NAT'L TELECOMM & INFORMATION ADMIN	1,085	-	-	-	-	-	1,085	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,622,134	106,030	38,239	285,344	79,612	89,673	923,894	21,110	78,232
DEPARTMENT OF THE ARMY	359,770	62,108	17,941	74,915	10,080	5,300	169,021	17,640	2,765
DEPARTMENT OF THE NAVY	271,700	9,593	7,839	62,709	17,081	21,695	152,783	-	-
DEPARTMENT OF THE AIR FORCE	590,627	25,670	9,214	71,948	28,870	40,000	414,925	-	-
DEFENSE AGENCIES	392,537	8,101	2,890	74,665	23,581	22,033	185,249	1,686	74,332
DEFENSE CIVIL PREPAREDNESS AGENCY	7,500	558	355	1,107	-	645	1,916	1,784	1,135
DEPARTMENT OF ENERGY, TOTAL	661,709	105,372	-	290,454	86,700	300	161,515	325	17,043
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,448,378	1,108,659	50,056	25,375	-	6,539	32,079	170,832	54,838
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	98,834	47,024	32,494	1,047	-	718	136	17,415	-
CENTER FOR DISEASE CONTROL	60,084	60,084	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,134	64,134	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	19,400	-	-	-	-	-	-	19,400	-
HEALTH RESOURCES ADMINISTRATION	5,000	-	-	-	-	-	-	5,000	-
HEALTH SERVICES ADMINISTRATION	9,980	9,680	-	-	-	-	-	-	300
HUMAN DEVELOPMENT SERVICES	42,938	13,396	2,679	-	-	-	6,348	20,525	-
NATIONAL INSTITUTE OF EDUCATION	16,340	-	-	-	-	-	-	16,340	-
NATIONAL INSTITUTES OF HEALTH	1,051,502	914,341	14,883	24,328	-	5,821	25,605	11,986	54,538
OFFICE OF ASST'T SECY FOR EDUC	1,316	-	-	-	-	-	-	1,316	-
OFFICE OF ASST'T SECY FOR HEALTH	27,511	-	-	-	-	-	-	27,511	-
OFFICE OF EDUCATION	13,311	-	-	-	-	-	-	13,311	-
OFFICE OF THE SECRETARY	25,128	-	-	-	-	-	-	25,128	-
SOCIAL SECURITY ADMINISTRATION	12,900	-	-	-	-	-	-	12,900	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	30,535	-	-	-	-	-	2,639	27,896	-
DEPARTMENT OF THE INTERIOR, TOTAL	164,081	57,323	350	5,962	40,536	3,743	51,293	4,174	700
BUREAU OF LAND MANAGEMENT	1,038	809	-	-	143	-	-	86	-
BUREAU OF MINES	48,400	-	-	1,200	6,200	2,150	38,850	-	-
BUREAU OF RECLAMATION	10,446	306	-	-	8,001	-	2,010	129	-
GEOLOGICAL SURVEY	33,833	-	-	4,262	22,476	1,057	6,038	-	-
NATIONAL PARK SERVICE	7,700	4,840	-	-	461	-	-	2,399	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	2,194	158	-	-	955	426	595	60	-
OFFICE OF WATER RSCH & TECHNOLOGY	10,800	1,540	350	500	2,300	110	3,800	1,500	700
US FISH & WILDLIFE SERVICE	49,670	49,670	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	31,022	400	2,759	-	-	150	1,089	26,624	-
BUREAU OF PRISONS	679	-	-	-	-	-	-	679	-
DRUG ENFORCEMENT ADMINISTRATION	500	-	100	-	-	-	400	-	-
IMMIGRATION & NATURALIZATION SVC	189	-	-	-	-	-	189	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	28,600	400	2,659	-	-	150	500	24,891	-
OFFICE OF THE ATTORNEY GENERAL	1,054	-	-	-	-	-	-	1,054	-
DEPARTMENT OF LABOR, TOTAL	22,033	-	334	-	-	-	-	21,699	-
BUREAU OF LABOR STATISTICS	782	-	-	-	-	-	-	782	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,737	-	-	-	-	-	-	3,737	-
EMPLOYMENT & TRAINING ADMIN	11,403	-	334	-	-	-	-	11,069	-
LABOR-MANAGEMENT SERVICES ADMIN	2,611	-	-	-	-	-	-	2,611	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	1,300	-	-	-	-	-	-	1,300	-
OFFICE OF THE SECRETARY	2,200	-	-	-	-	-	-	2,200	-
DEPARTMENT OF STATE, TOTAL	49,126	23,997	-	-	411	11,582	911	9,225	3,000
AGENCY FOR INTERNAT'L DEVELOPMENT	46,648	23,997	-	-	-	11,582	911	7,158	3,000
DEPARTMENTAL FUNDS	2,478	-	-	-	411	-	-	2,067	-
DEPARTMENT OF TRANSPORTATION, TOTAL	66,500	2,949	65	-	387	1,832	60,248	1,019	-
COAST GUARD	2,300	-	-	-	374	-	1,895	31	-
FEDERAL AVIATION ADMINISTRATION	6,800	-	-	-	-	-	6,800	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	-	-	-	-	-	4,900	-	-
FEDERAL RAILROAD ADMINISTRATION	9,200	-	-	-	-	34	9,158	8	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,000	2,949	-	-	-	1,798	32,942	311	-
OFFICE OF THE SECRETARY	4,100	-	65	-	13	-	3,353	669	-
RESEARCH & SPECIAL PROGRAMS ADMIN	100	-	-	-	-	-	100	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-

CONTINUED ON NEXT PAGE

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,114	-	-	1,326	-	-	634	380	1,774
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	414	-	-	60	-	-	-	-	354
BUREAU OF ENGRAVING AND PRINTING ...	1,900	-	-	1,266	-	-	634	-	-
INTERNAL REVENUE SERVICE	1,800	-	-	-	-	-	-	380	1,420
OTHER AGENCIES									
ACTION	231	-	-	-	-	-	-	231	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	-	-	-	-	-	-	1,685	-
APPALACHIAN REGIONAL COMMISSION	320	-	-	-	-	-	-	320	-
CIVIL AERONAUTICS BOARD	711	-	-	-	-	-	-	711	-
COMMUNITY SERVICES ADMINISTRATION	1,961	-	-	-	-	-	-	1,961	-
CONSUMER PRODUCT SAFETY COMMISSION ...	917	326	-	-	-	-	291	300	-
ENVIRONMENTAL PROTECTION AGENCY	246,660	73,998	-	69,065	4,464	3,699	92,950	2,484	-
FEDERAL COMMUNICATIONS COMMISSION	2,400	-	-	-	-	83	1,105	1,212	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,945	-	9	-	-	159	1,777	-	-
FEDERAL HOME LOAN BANK BOARD	977	-	-	-	-	-	-	977	-
FEDERAL TRADE COMMISSION	904	-	-	-	-	-	-	904	-
GENERAL SERVICES ADMINISTRATION	369	-	-	-	-	-	332	-	37
INTERNATIONAL COMMUNICATION AGENCY ...	115	-	-	-	-	-	115	-	-
INTERSTATE COMMERCE COMMISSION	250	-	-	-	-	100	-	150	-
LIBRARY OF CONGRESS	370	-	-	-	-	-	-	-	370
NATIONAL AERONAUTICS & SPACE ADMIN ...	865,438	29,020	9,664	21,714	234,881	16,183	552,585	49	1,342
NATIONAL SCIENCE FOUNDATION	65,462	3,084	-	5,922	3,709	1,161	19,479	18,699	13,408
NUCLEAR REGULATORY COMMISSION	133,891	-	-	-	-	-	133,891	-	-
OFFICE OF PERSONNEL MANAGEMENT	987	-	987	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	9,719	869	-	3,011	-	-	5,782	-	57
US ARMS CONTROL & DISARMAMENT AGENCY .	2,495	-	-	241	285	297	376	1,296	-
US INTERNATIONAL TRADE COMMISSION	3,119	-	-	-	-	-	-	3,119	-
VETERANS ADMINISTRATION	90,509	76,045	9,397	-	-	-	5,067	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,684,055	2,055,503	118,456	815,498	601,603	169,782	2,273,039	429,682	220,492
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	385,641	245,840	74	27,432	10,990	3,953	34,743	62,609	-
ECON, STAT & COOPERATIVES SERVICE	31,592	-	-	-	-	1,580	-	30,012	-
FOREST SERVICE	74,430	44,956	74	3,052	9,378	968	9,378	6,624	-
SCIENCE & EDUCATION ADMINISTRATION	279,619	200,884	-	24,380	1,612	1,405	25,365	25,973	-
AGRICULTURAL RESEARCH	177,116	130,251	-	19,454	971	1,405	21,852	3,183	-
COOPERATIVE RESEARCH	102,503	70,633	-	4,926	641	-	3,513	22,790	-
DEPARTMENT OF COMMERCE, TOTAL	189,573	52,703	171	28,440	71,174	5,284	23,736	8,018	47
BUREAU OF THE CENSUS	2,018	-	171	-	-	1,293	-	507	47
ECONOMIC DEVELOPMENT ADMINISTRATION	3,600	-	-	-	-	-	-	3,600	-
MARITIME ADMINISTRATION	4,600	-	-	-	-	-	4,140	460	-
NATIONAL BUREAU OF STANDARDS	45,074	-	-	23,338	385	3,206	15,067	3,078	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	131,789	52,703	-	5,102	70,789	785	2,037	373	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	-	-	-	-	-	2,492	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,774,302	112,391	38,096	309,857	80,245	111,048	967,899	28,572	126,194
DEPARTMENT OF THE ARMY	375,646	61,873	19,112	81,201	16,155	7,933	160,836	25,292	3,244
DEPARTMENT OF THE NAVY	293,300	9,925	9,314	65,727	16,452	26,489	165,393	-	-
DEPARTMENT OF THE AIR FORCE	636,030	30,650	7,669	84,031	27,190	45,672	440,818	-	-
DEFENSE AGENCIES	464,126	9,579	1,741	78,118	20,448	30,486	199,552	2,032	122,170
DEFENSE CIVIL PREPAREDNESS AGENCY	5,200	364	260	780	-	468	1,300	1,248	780
DEPARTMENT OF ENERGY, TOTAL	711,543	105,112	-	305,699	95,841	1,200	183,501	3,000	17,190
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,380,144	1,199,752	56,639	26,834	-	7,137	34,126	196,588	59,068
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	121,025	62,374	37,742	624	-	870	162	19,253	-
CENTER FOR DISEASE CONTROL	67,978	67,978	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	61,967	61,967	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	32,500	-	-	-	-	-	-	32,500	-
HEALTH RESOURCES ADMINISTRATION	1,100	-	-	-	-	-	-	1,100	-
HEALTH SERVICES ADMINISTRATION	9,087	8,787	-	-	-	-	-	-	300
HUMAN DEVELOPMENT SERVICES	50,163	13,395	2,692	-	-	-	6,370	27,706	-
NATIONAL INSTITUTE OF EDUCATION	20,800	-	-	-	-	-	-	20,800	-
NATIONAL INSTITUTES OF HEALTH	1,133,202	985,251	16,205	26,210	-	6,267	27,594	12,907	58,768
OFFICE OF ASST'T SECY FOR EDUC	1,288	-	-	-	-	-	-	1,288	-
OFFICE OF ASST'T SECY FOR HEALTH	27,564	-	-	-	-	-	-	27,564	-
OFFICE OF EDUCATION	18,470	-	-	-	-	-	-	18,470	-
OFFICE OF THE SECRETARY	18,800	-	-	-	-	-	-	18,800	-
SOCIAL SECURITY ADMINISTRATION	16,200	-	-	-	-	-	-	16,200	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	31,821	-	-	-	-	-	1,811	30,010	-
DEPARTMENT OF THE INTERIOR, TOTAL	209,279	68,327	375	4,188	53,964	5,970	70,357	5,316	782
BUREAU OF LAND MANAGEMENT	1,121	889	-	-	160	-	-	72	-
BUREAU OF MINES	76,600	-	-	1,000	10,475	4,275	60,850	-	-
BUREAU OF RECLAMATION	10,926	266	-	-	8,735	-	1,815	110	-
GEOLOGICAL SURVEY	36,067	-	-	2,618	27,052	1,425	4,872	100	-
NATIONAL PARK SERVICE	8,085	4,122	-	-	647	-	-	3,234	82
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	-	-	3,805	150	825	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,500	2,850	375	570	3,090	120	1,995	1,800	700
US FISH & WILDLIFE SERVICE	60,000	60,000	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	23,287	600	2,020	-	-	150	1,781	18,736	-
BUREAU OF PRISONS	1,461	-	-	-	-	-	-	1,461	-
DRUG ENFORCEMENT ADMINISTRATION	1,200	-	200	-	-	-	1,000	-	-
IMMIGRATION & NATURALIZATION SVC	281	-	-	-	-	-	281	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	18,900	600	1,820	-	-	150	500	15,830	-
OFFICE OF THE ATTORNEY GENERAL	1,445	-	-	-	-	-	-	1,445	-
DEPARTMENT OF LABOR, TOTAL	28,269	-	281	-	-	-	-	27,988	-
BUREAU OF LABOR STATISTICS	912	-	-	-	-	-	-	912	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,813	-	-	-	-	-	-	5,813	-
EMPLOYMENT & TRAINING ADMIN	11,415	-	281	-	-	-	-	11,134	-
LABOR-MANAGEMENT SERVICES ADMIN	2,783	-	-	-	-	-	-	2,783	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	800	-	-	-	-	-	-	800	-
DEPARTMENT OF STATE, TOTAL	78,879	55,083	299	-	556	9,245	-	12,751	945
AGENCY FOR INTERNAT'L DEVELOPMENT	76,325	55,083	299	-	-	9,245	-	10,753	945
DEPARTMENTAL FUNDS	2,554	-	-	-	556	-	-	1,998	-
DEPARTMENT OF TRANSPORTATION, TOTAL	77,300	2,996	-	-	2,515	1,859	811	2,119	-
COAST GUARD	6,200	-	-	-	1,009	-	5,112	79	-
FEDERAL AVIATION ADMINISTRATION	9,000	-	-	-	-	-	9,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	-	-	-	-	-	5,600	-	-
FEDERAL RAILROAD ADMINISTRATION	8,500	-	-	-	-	32	8,457	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	38,600	2,996	-	-	-	1,827	33,453	324	-
OFFICE OF THE SECRETARY	3,600	-	-	-	-	-	1,895	1,705	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,800	-	-	-	1,506	-	3,294	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	-	-	1,000	-	-

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TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,794	-	-	1,495	-	-	685	-	2,614
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	494	-	-	80	-	-	-	-	414
BUREAU OF ENGRAVING AND PRINTING ...	2,100	-	-	1,415	-	-	685	-	-
INTERNAL REVENUE SERVICE	2,200	-	-	-	-	-	-	-	2,200
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,703	-	-	-	-	-	-	1,703	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	830	-	-	-	-	-	-	830	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,800	3,357	-	-	-	-	443	-	-
ENVIRONMENTAL PROTECTION AGENCY	257,830	79,900	-	72,200	5,000	4,000	94,230	2,500	-
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	-	-	-	85	1,500	1,815	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,763	-	-	-	-	199	1,564	-	-
FEDERAL HOME LOAN BANK BOARD	1,210	-	-	-	-	-	-	1,210	-
FEDERAL TRADE COMMISSION	1,076	-	-	-	-	-	-	1,076	-
GENERAL SERVICES ADMINISTRATION	722	-	-	-	-	-	672	-	50
INTERNATIONAL COMMUNICATION AGENCY ...	164	-	-	-	-	-	164	-	-
INTERSTATE COMMERCE COMMISSION	265	-	-	-	-	120	-	145	-
LIBRARY OF CONGRESS	370	-	-	-	-	-	-	-	370
NATIONAL AERONAUTICS & SPACE ADMIN ...	963,910	35,344	9,038	26,983	276,673	17,444	596,903	75	1,450
NATIONAL SCIENCE FOUNDATION	69,991	4,900	550	8,078	4,422	1,754	20,579	18,161	11,547
NUCLEAR REGULATORY COMMISSION	151,580	-	-	-	-	-	151,580	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,024	-	1,024	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	19,391	965	-	3,428	-	-	14,693	-	235
US ARMS CONTROL & DISARMAMENT AGENCY .	3,076	-	-	794	223	334	150	1,575	-
US INTERNATIONAL TRADE COMMISSION	3,285	-	-	-	-	-	-	3,285	-
VETERANS ADMINISTRATION	102,233	88,233	9,889	-	-	-	4,111	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,055,703	2,088,914	134,543	895,104	654,663	194,241	2,372,119	442,783	273,336
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	368,200	231,449	70	25,910	10,293	3,990	32,793	63,695	-
ECON, STAT & COOPERATIVES SERVICE	35,024	-	-	-	-	1,751	-	33,273	-
FOREST SERVICE	69,645	42,066	70	2,855	8,775	905	8,775	6,199	-
SCIENCE & EDUCATION ADMINISTRATION	263,531	189,383	-	23,055	1,518	1,334	24,018	24,223	-
AGRICULTURAL RESEARCH	168,174	123,674	-	18,472	921	1,334	20,750	3,023	-
COOPERATIVE RESEARCH	95,357	65,709	-	4,583	597	-	3,268	21,200	-
DEPARTMENT OF COMMERCE, TOTAL	199,351	53,659	189	30,250	81,785	5,346	24,431	3,638	53
BUREAU OF THE CENSUS	2,241	-	189	-	-	1,436	-	563	53
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
MARITIME ADMINISTRATION	3,700	-	-	-	-	-	3,330	370	-
NATIONAL BUREAU OF STANDARDS	46,755	-	-	25,867	388	3,236	16,159	1,105	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	141,995	53,659	-	4,383	81,397	674	1,882	-	-
NAT'L TELECOMM & INFORMATION ADMIN	3,060	-	-	-	-	-	3,060	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,975,651	117,737	45,491	342,497	87,644	120,433	1,061,579	35,864	164,406
DEPARTMENT OF THE ARMY	429,145	63,407	24,320	85,735	16,411	8,244	198,758	28,972	3,298
DEPARTMENT OF THE NAVY	295,300	10,958	9,362	65,218	16,259	27,503	166,000	-	-
DEPARTMENT OF THE AIR FORCE	683,416	33,110	9,050	79,698	29,550	45,588	486,420	-	-
DEFENSE AGENCIES	556,890	9,499	2,214	110,211	25,424	38,117	207,676	4,276	159,473
DEFENSE CIVIL PREPAREDNESS AGENCY	10,900	763	545	1,635	-	981	2,725	2,616	1,635
DEPARTMENT OF ENERGY, TOTAL	719,505	117,253	-	332,515	100,456	2,000	135,615	3,000	28,666
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,635,933	1,225,805	65,070	26,921	-	7,341	33,299	218,569	58,928
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	148,117	78,010	45,539	728	-	1,079	188	22,573	-
CENTER FOR DISEASE CONTROL	81,572	81,572	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,287	64,287	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	51,300	-	-	-	-	-	-	51,300	-
HEALTH SERVICES ADMINISTRATION	6,917	6,717	-	-	-	-	-	-	200
HUMAN DEVELOPMENT SERVICES	47,423	11,626	2,340	-	-	-	5,536	27,921	-
NATIONAL INSTITUTE OF EDUCATION	22,100	-	-	-	-	-	-	22,100	-
NATIONAL INSTITUTES OF HEALTH	1,132,440	983,593	17,191	26,193	-	6,262	27,575	12,898	58,728
OFFICE OF ASST'T SECY FOR EDUC	1,486	-	-	-	-	-	-	1,486	-
OFFICE OF ASST'T SECY FOR HEALTH	24,060	-	-	-	-	-	-	24,060	-
OFFICE OF EDUCATION	18,316	-	-	-	-	-	-	18,316	-
OFFICE OF THE SECRETARY	19,115	-	-	-	-	-	-	19,115	-
SOCIAL SECURITY ADMINISTRATION	18,800	-	-	-	-	-	-	18,800	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	27,777	-	-	-	-	-	3,077	24,700	-
DEPARTMENT OF THE INTERIOR, TOTAL	208,031	69,240	375	8,396	50,318	6,192	67,287	5,433	790
BUREAU OF LAND MANAGEMENT	1,007	832	-	-	100	-	-	75	-
BUREAU OF MINES	67,200	-	-	950	9,100	4,100	53,050	-	-
BUREAU OF RECLAMATION	10,796	309	-	-	8,056	-	2,263	168	-
GEOLOGICAL SURVEY	40,839	-	-	6,876	25,462	1,822	6,679	-	-
NATIONAL PARK SERVICE	8,489	4,329	-	-	680	-	-	3,390	90
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,980	200	-	-	3,830	150	800	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	14,000	2,850	375	570	3,090	120	4,495	1,800	700
US FISH & WILDLIFE SERVICE	60,720	60,720	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	17,338	150	1,040	-	-	150	1,500	14,498	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	200	-	-	-	800	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	14,428	150	840	-	-	150	500	12,788	-
OFFICE OF THE ATTORNEY GENERAL	1,710	-	-	-	-	-	-	1,710	-
DEPARTMENT OF LABOR, TOTAL	28,979	-	277	-	-	-	-	28,702	-
BUREAU OF LABOR STATISTICS	864	-	-	-	-	-	-	864	-
EMPLOYMENT STANDARDS ADMINISTRATION	7,056	-	-	-	-	-	-	7,056	-
EMPLOYMENT & TRAINING ADMIN	10,961	-	277	-	-	-	-	10,684	-
LABOR-MANAGEMENT SERVICES ADMIN	2,752	-	-	-	-	-	-	2,752	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	800	-	-	-	-	-	-	800	-
DEPARTMENT OF STATE, TOTAL	74,216	44,818	269	-	376	18,375	-	7,120	3,258
AGENCY FOR INTERNAT'L DEVELOPMENT	72,441	44,818	269	-	-	18,375	-	5,721	3,258
DEPARTMENTAL FUNDS	1,775	-	-	-	376	-	-	1,399	-
DEPARTMENT OF TRANSPORTATION, TOTAL	67,300	2,452	-	-	2,535	1,523	59,238	1,552	-
COAST GUARD	7,100	-	-	-	1,155	-	5,852	93	-
FEDERAL AVIATION ADMINISTRATION	7,800	-	-	-	-	-	7,800	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	-	-	-	-	-	5,400	-	-
FEDERAL RAILROAD ADMINISTRATION	7,500	-	-	-	-	29	7,462	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	31,600	2,452	-	-	-	1,495	27,388	265	-
OFFICE OF THE SECRETARY	2,500	-	-	-	-	-	1,316	1,184	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,400	-	-	-	1,380	-	3,020	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	-	-	1,000	-	-

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TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF THE TREASURY, TOTAL	4,956	-	-	1,437	-	-	623	-	2,896
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	1,900	-	-	1,277	-	-	623	-	-
CUSTOMS SERVICE	110	-	-	110	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,600	-	-	-	-	-	-	-	2,600
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,683	-	-	-	-	-	-	1,683	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	730	-	-	-	-	-	-	730	-
COMMUNITY SERVICES ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	1,865	-	-	-	-	235	-	-
ENVIRONMENTAL PROTECTION AGENCY	297,420	95,200	-	87,000	6,000	6,000	100,720	2,500	-
FEDERAL COMMUNICATIONS COMMISSION	3,400	-	-	-	-	85	1,500	1,815	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,744	-	-	-	-	196	1,548	-	-
FEDERAL HOME LOAN BANK BOARD	1,325	-	-	-	-	-	-	1,325	-
FEDERAL TRADE COMMISSION	975	-	-	-	-	-	-	975	-
GENERAL SERVICES ADMINISTRATION	1,420	-	-	-	-	-	1,367	-	53
INTERNATIONAL COMMUNICATION AGENCY ...	140	-	-	-	-	-	140	-	-
INTERSTATE COMMERCE COMMISSION	300	-	-	-	-	120	-	180	-
LIBRARY OF CONGRESS	370	-	-	-	-	-	-	-	370
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,037,816	38,649	9,524	28,604	310,453	20,443	628,568	75	1,500
NATIONAL SCIENCE FOUNDATION	72,770	3,873	800	7,541	4,598	1,847	22,737	19,131	12,243
NUCLEAR REGULATORY COMMISSION	176,270	-	-	-	-	-	176,270	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,254	-	1,254	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	20,209	1,123	-	3,603	-	-	15,310	-	173
US ARMS CONTROL & DISARMAMENT AGENCY .	2,575	-	-	430	205	200	390	1,350	-
US INTERNATIONAL TRADE COMMISSION	3,648	-	-	-	-	-	-	3,648	-
VETERANS ADMINISTRATION	99,717	85,641	10,184	-	-	-	3,892	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	112,084	30,142	50,473	31,469	1,857,735	623,800	120,995	210,946	827,866	74,128
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	70	-	70	-	221,316	22,922	34,164	157,879	4,157	2,194
FOREST SERVICE	70	-	70	-	42,167	12,636	29,531	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	179,149	10,286	4,633	157,879	4,157	2,194
AGRICULTURAL RESEARCH	-	-	-	-	115,849	3,855	4,633	105,167	-	2,194
COOPERATIVE RESEARCH	-	-	-	-	63,300	6,431	-	52,712	4,157	-
DEPARTMENT OF COMMERCE, TOTAL	154	-	154	-	48,347	-	-	48,347	-	-
BUREAU OF THE CENSUS	154	-	154	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	48,347	-	-	48,347	-	-
DEPARTMENT OF DEFENSE, TOTAL	38,239	1,398	29,168	7,673	106,030	37,123	2,008	280	62,848	3,771
DEPARTMENT OF THE ARMY	17,941	698	17,198	45	62,108	11,086	1,060	180	49,662	120
DEPARTMENT OF THE NAVY	7,839	-	7,839	-	9,593	157	231	-	8,706	499
DEPARTMENT OF THE AIR FORCE	9,214	700	2,331	6,183	25,670	20,955	408	100	4,207	-
DEFENSE AGENCIES	2,890	-	1,445	1,445	8,101	4,925	-	-	24	3,152
DEFENSE CIVIL PREPAREDNESS AGENCY	355	-	355	-	558	-	309	-	249	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	105,372	66,275	-	2,000	6,000	31,097
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	50,056	18,643	16,275	15,138	1,108,659	424,155	-	-	654,867	29,637
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	32,494	18,643	13,596	255	47,024	26,949	-	-	9,862	10,213
CENTER FOR DISEASE CONTROL	-	-	-	-	60,084	-	-	-	60,084	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,134	50,612	-	-	13,522	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	9,680	-	-	-	9,680	-
HUMAN DEVELOPMENT SERVICES	2,679	-	2,679	-	13,396	-	-	-	13,396	-
NATIONAL INSTITUTES OF HEALTH	14,883	-	-	14,883	914,341	346,594	-	-	548,323	19,424
DEPARTMENT OF THE INTERIOR, TOTAL	350	-	350	-	57,323	41,205	15,265	758	60	35
BUREAU OF LAND MANAGEMENT	-	-	-	-	809	114	95	600	-	-
BUREAU OF RECLAMATION	-	-	-	-	306	306	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,840	-	4,840	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	158	-	-	158	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	350	-	1,540	1,445	-	-	60	35
US FISH & WILDLIFE SERVICE	-	-	-	-	49,670	39,340	10,330	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,759	-	2,659	100	400	-	-	-	400	-
DRUG ENFORCEMENT ADMINISTRATION	100	-	-	100	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	2,659	-	2,659	-	400	-	-	-	400	-
DEPARTMENT OF LABOR, TOTAL	334	-	334	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	334	-	334	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	23,997	17,615	-	1,682	600	4,100
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	23,997	17,615	-	1,682	600	4,100
DEPARTMENT OF TRANSPORTATION, TOTAL	65	-	65	-	2,949	-	-	-	2,949	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,949	-	-	-	2,949	-
OFFICE OF THE SECRETARY	65	-	65	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	326	-	-	-	-	326
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	73,998	-	69,558	-	4,440	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9	-	9	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	9,664	747	359	8,558	29,020	4,544	-	-	24,476	-
NATIONAL SCIENCE FOUNDATION	-	-	-	-	3,084	116	-	-	-	2,968
OFFICE OF PERSONNEL MANAGEMENT	987	-	987	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	869	869	-	-	-	-
VETERANS ADMINISTRATION	9,397	9,354	43	-	76,045	8,976	-	-	67,069	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	INTERDISCIPLINARY-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	118,456	33,076	54,077	31,303	2,055,503	668,214	131,441	235,096	897,133	123,619
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	74	-	74	-	245,840	26,334	37,080	175,827	4,638	1,961
FOREST SERVICE	74	-	74	-	44,956	13,472	31,484	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	200,884	12,862	5,596	175,827	4,638	1,961
AGRICULTURAL RESEARCH	-	-	-	-	130,251	5,687	5,596	117,007	-	1,961
COOPERATIVE RESEARCH	-	-	-	-	70,633	7,175	-	58,820	4,638	-
DEPARTMENT OF COMMERCE, TOTAL	171	-	171	-	52,703	-	-	52,703	-	-
BUREAU OF THE CENSUS	171	-	171	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	52,703	-	-	52,703	-	-
DEPARTMENT OF DEFENSE, TOTAL	38,096	1,007	30,462	6,627	112,391	40,266	1,984	300	64,992	4,849
DEPARTMENT OF THE ARMY	19,112	707	18,156	249	61,873	11,071	1,290	200	49,187	125
DEPARTMENT OF THE NAVY	9,314	-	9,314	-	9,925	165	62	-	9,020	678
DEPARTMENT OF THE AIR FORCE	7,669	100	2,442	4,927	30,650	23,526	424	100	6,600	-
DEFENSE AGENCIES	1,741	-	290	1,451	9,579	5,504	-	-	29	4,046
DEFENSE CIVIL PREPAREDNESS AGENCY	260	-	260	-	364	-	208	-	156	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	105,112	60,264	355	2,450	6,775	35,268
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	56,639	21,853	18,303	16,483	1,199,752	457,494	-	-	706,435	35,823
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	37,742	21,853	15,611	278	62,374	34,757	-	-	12,717	14,900
CENTER FOR DISEASE CONTROL	-	-	-	-	67,978	-	-	-	67,978	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	61,967	48,954	-	-	13,013	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	8,787	-	-	-	8,787	-
HUMAN DEVELOPMENT SERVICES	2,692	-	2,692	-	13,395	-	-	-	13,395	-
NATIONAL INSTITUTES OF HEALTH	16,205	-	-	16,205	985,251	373,783	-	-	590,545	20,923
DEPARTMENT OF THE INTERIOR, TOTAL	375	375	-	-	68,327	50,696	16,622	859	90	60
BUREAU OF LAND MANAGEMENT	-	-	-	-	889	130	100	659	-	-
BUREAU OF RECLAMATION	-	-	-	-	266	266	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,122	-	4,122	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	200	-	-	200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	375	375	-	-	2,850	2,700	-	-	90	60
US FISH & WILDLIFE SERVICE	-	-	-	-	60,000	47,600	12,400	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,020	-	1,820	200	600	-	-	-	600	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	1,820	-	1,820	-	600	-	-	-	600	-
DEPARTMENT OF LABOR, TOTAL	281	-	281	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	281	-	281	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	299	-	299	-	55,083	14,510	-	2,957	-	37,616
AGENCY FOR INTERNAT'L DEVELOPMENT	299	-	299	-	55,083	14,510	-	2,957	-	37,616
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	2,996	-	-	-	2,996	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,996	-	-	-	2,996	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	3,357	-	-	-	-	3,357
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	79,900	-	75,400	-	4,500	-
NATIONAL AERONAUTICS & SPACE ADMIN	9,038	1	1,044	7,993	35,344	5,594	-	-	29,750	-
NATIONAL SCIENCE FOUNDATION	550	-	550	-	4,900	215	-	-	-	4,685
OFFICE OF PERSONNEL MANAGEMENT	1,024	-	1,024	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	965	965	-	-	-	-
VETERANS ADMINISTRATION	9,889	9,840	49	-	88,233	11,876	-	-	76,357	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	134,543	38,086	61,827	34,630	2,088,914	679,525	146,106	225,847	912,401	125,035
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	70	-	70	-	231,449	24,681	34,773	165,818	4,315	1,862
FOREST SERVICE	70	-	70	-	42,066	12,606	29,460	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	189,383	12,075	5,313	165,818	4,315	1,862
AGRICULTURAL RESEARCH	-	-	-	-	123,674	5,400	5,313	111,099	-	1,862
COOPERATIVE RESEARCH	-	-	-	-	65,709	6,675	-	54,719	4,315	-
DEPARTMENT OF COMMERCE, TOTAL	189	-	189	-	53,659	-	-	53,659	-	-
BUREAU OF THE CENSUS	189	-	189	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,659	-	-	53,659	-	-
DEPARTMENT OF DEFENSE, TOTAL	45,491	908	36,171	8,412	117,737	42,990	2,524	300	67,495	4,428
DEPARTMENT OF THE ARMY	24,320	608	23,493	219	63,407	10,774	1,470	200	50,863	100
DEPARTMENT OF THE NAVY	9,362	-	9,362	-	10,958	180	150	-	9,905	723
DEPARTMENT OF THE AIR FORCE	9,050	300	2,771	5,979	33,110	26,142	468	100	6,400	-
DEFENSE AGENCIES	2,214	-	-	2,214	9,499	5,894	-	-	-	3,605
DEFENSE CIVIL PREPAREDNESS AGENCY	545	-	545	-	763	-	436	-	327	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	117,253	64,870	1,000	2,450	7,244	41,689
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	65,070	27,036	20,516	17,518	1,225,805	463,318	-	-	718,514	43,973
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	45,539	27,036	18,176	327	78,010	39,245	-	-	15,709	23,056
CENTER FOR DISEASE CONTROL	-	-	-	-	81,572	-	-	-	81,572	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,287	50,787	-	-	13,500	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	6,717	-	-	-	6,717	-
HUMAN DEVELOPMENT SERVICES	2,340	-	2,340	-	11,626	-	-	-	11,626	-
NATIONAL INSTITUTES OF HEALTH	17,191	-	-	17,191	983,593	373,286	-	-	589,390	20,917
DEPARTMENT OF THE INTERIOR, TOTAL	375	-	375	-	69,240	51,259	17,109	722	90	60
BUREAU OF LAND MANAGEMENT	-	-	-	-	832	110	200	522	-	-
BUREAU OF RECLAMATION	-	-	-	-	309	309	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,329	-	4,329	-	-	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	200	-	-	200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	375	-	375	-	2,850	2,700	-	-	90	60
US FISH & WILDLIFE SERVICE	-	-	-	-	60,720	48,140	12,580	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,040	-	840	200	150	150	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	200	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	840	-	840	-	150	150	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	277	-	277	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	277	-	277	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	269	-	269	-	44,818	14,510	-	2,898	-	27,410
AGENCY FOR INTERNAT'L DEVELOPMENT	269	-	269	-	44,818	14,510	-	2,898	-	27,410
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	2,452	-	-	-	2,452	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	2,452	-	-	-	2,452	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,865	-	-	-	-	1,865
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	95,200	-	90,700	-	4,500	-
NATIONAL AERONAUTICS & SPACE ADMIN	9,524	11	1,023	8,500	38,649	6,772	-	-	31,877	-
NATIONAL SCIENCE FOUNDATION	800	-	800	-	3,873	125	-	-	-	3,748
OFFICE OF PERSONNEL MANAGEMENT	1,254	-	1,254	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,123	1,123	-	-	-	-
VETERANS ADMINISTRATION	10,184	10,141	43	-	85,641	9,727	-	-	75,914	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	760,989	5,789	211,401	465,468	78,331	522,378	157,822	128,431	92,492	143,633
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,704	-	24,260	2,444	-	10,338	3,579	6,759	-	-
FOREST SERVICE	2,862	-	1,745	1,117	-	8,797	2,304	6,493	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,842	-	22,515	1,327	-	1,541	1,275	266	-	-
AGRICULTURAL RESEARCH	19,427	-	18,100	1,327	-	966	700	266	-	-
COOPERATIVE RESEARCH	4,415	-	4,415	-	-	575	575	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	25,871	727	7,177	17,967	-	61,055	28,120	1,467	31,123	345
NATIONAL BUREAU OF STANDARDS	21,804	105	6,238	15,461	-	256	120	136	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,067	622	939	2,506	-	60,799	28,000	1,331	31,123	345
DEPARTMENT OF DEFENSE, TOTAL	285,344	3,565	50,447	160,696	70,636	79,612	38,455	16,621	17,829	6,707
DEPARTMENT OF THE ARMY	74,915	-	26,330	14,443	34,142	10,080	20	5,143	295	4,622
DEPARTMENT OF THE NAVY	62,709	2,565	9,643	49,951	550	17,081	2,597	-	14,484	-
DEPARTMENT OF THE AIR FORCE	71,948	1,000	13,750	57,108	90	28,870	25,415	2,955	-	500
DEFENSE AGENCIES	74,665	-	696	38,115	35,854	23,581	10,423	8,523	3,050	1,585
DEFENSE CIVIL PREPAREDNESS AGENCY	1,107	-	28	1,079	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	290,454	-	28,178	262,210	66	86,700	13,890	27,938	12,438	32,434
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	25,375	-	22,645	2,730	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,047	-	1,047	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	24,328	-	21,598	2,730	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,962	-	5,028	934	-	40,536	7,890	28,982	324	3,340
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	143	-	143	-	-
BUREAU OF MINES	1,200	-	1,200	-	-	6,200	-	3,500	-	2,700
BUREAU OF RECLAMATION	-	-	-	-	-	8,001	7,690	17	294	-
GEOLOGICAL SURVEY	4,262	-	3,443	819	-	22,476	-	22,476	-	-
NATIONAL PARK SERVICE	-	-	-	-	-	461	-	321	-	140
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	-	955	-	955	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	500	-	385	115	-	2,300	200	1,570	30	500
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	411	-	-	237	174
DEPARTMENTAL FUNDS	-	-	-	-	-	411	-	-	237	174
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	387	5	-	374	8
COAST GUARD	-	-	-	-	-	374	-	-	374	-
OFFICE OF THE SECRETARY	-	-	-	-	-	13	5	-	-	8
DEPARTMENT OF THE TREASURY, TOTAL	1,326	-	309	207	810	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	60	-	30	30	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,266	-	279	177	810	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	69,065	-	66,425	2,640	-	4,464	1,311	2,051	1,102	-
NATIONAL AERONAUTICS & SPACE ADMIN	21,714	1,497	339	13,059	6,819	234,881	64,272	41,211	29,014	100,384
NATIONAL SCIENCE FOUNDATION	5,922	-	3,571	2,351	-	3,709	300	3,165	3	241
TENNESSEE VALLEY AUTHORITY	3,011	-	3,011	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	241	-	11	230	-	285	-	237	48	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	815,498	6,539	208,502	520,290	80,167	601,603	176,517	149,999	93,508	181,579
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	27,432	--	24,790	2,642	--	10,990	3,817	7,173	--	--
FOREST SERVICE	3,052	--	1,861	1,191	--	9,378	2,456	6,922	--	--
SCIENCE & EDUCATION ADMINISTRATION	24,380	--	22,929	1,451	--	1,612	1,361	251	--	--
AGRICULTURAL RESEARCH	19,454	--	18,003	1,451	--	971	720	251	--	--
COOPERATIVE RESEARCH	4,926	--	4,926	--	--	641	641	--	--	--
DEPARTMENT OF COMMERCE, TOTAL	28,440	894	7,671	19,875	--	71,174	32,679	1,412	36,722	361
NATIONAL BUREAU OF STANDARDS	23,338	109	6,494	16,735	--	385	231	154	--	--
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,102	785	1,177	3,140	--	70,789	32,448	1,258	36,722	361
DEPARTMENT OF DEFENSE, TOTAL	309,857	3,745	54,842	184,523	66,747	80,245	43,251	12,789	15,833	8,372
DEPARTMENT OF THE ARMY	81,201	--	32,460	17,250	31,491	16,155	5,967	4,193	240	5,755
DEPARTMENT OF THE NAVY	65,727	2,945	7,104	51,090	4,588	16,452	2,292	--	14,160	--
DEPARTMENT OF THE AIR FORCE	84,031	800	14,600	68,611	20	27,190	23,773	2,917	--	500
DEFENSE AGENCIES	78,118	--	626	46,844	30,648	20,448	11,219	5,679	1,433	2,117
DEFENSE CIVIL PREPAREDNESS AGENCY	780	--	52	728	--	--	--	--	--	--
DEPARTMENT OF ENERGY, TOTAL	305,699	--	17,231	284,468	4,000	95,841	16,954	30,796	11,635	36,456
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	26,834	--	23,900	2,934	--	--	--	--	--	--
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	624	--	624	--	--	--	--	--	--	--
NATIONAL INSTITUTES OF HEALTH	26,210	--	23,276	2,934	--	--	--	--	--	--
DEPARTMENT OF THE INTERIOR, TOTAL	4,188	--	3,058	1,130	--	53,964	8,959	37,868	136	7,001
BUREAU OF LAND MANAGEMENT	--	--	--	--	--	160	--	160	--	--
BUREAU OF MINES	1,000	--	1,000	--	--	10,475	--	7,350	--	3,125
BUREAU OF RECLAMATION	--	--	--	--	--	8,735	8,609	10	116	--
GEOLOGICAL SURVEY	2,618	--	1,623	995	--	27,052	--	27,052	--	--
NATIONAL PARK SERVICE	--	--	--	--	--	647	--	431	--	216
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	--	--	--	--	--	3,805	100	725	--	2,980
OFFICE OF WATER RSCH & TECHNOLOGY	570	--	435	135	--	3,090	250	2,140	20	680
DEPARTMENT OF STATE, TOTAL	--	--	--	--	--	556	--	--	81	475
DEPARTMENTAL FUNDS	--	--	--	--	--	556	--	--	81	475
DEPARTMENT OF TRANSPORTATION, TOTAL	--	--	--	--	--	2,515	1,506	--	1,009	--
COAST GUARD	--	--	--	--	--	1,009	--	--	1,009	--
RESEARCH & SPECIAL PROGRAMS ADMIN	--	--	--	--	--	1,506	1,506	--	--	--
DEPARTMENT OF THE TREASURY, TOTAL	1,495	--	351	238	906	--	--	--	--	--
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	80	--	40	40	--	--	--	--	--	--
BUREAU OF ENGRAVING AND PRINTING	1,415	--	311	198	906	--	--	--	--	--
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	72,200	--	67,200	4,400	--	5,000	1,400	2,400	1,200	--
NATIONAL AERONAUTICS & SPACE ADMIN	26,983	1,900	300	16,269	8,514	276,673	67,571	53,924	26,594	128,584
NATIONAL SCIENCE FOUNDATION	8,078	--	5,011	3,067	--	4,422	380	3,467	245	330
TENNESSEE VALLEY AUTHORITY	3,498	--	3,498	--	--	--	--	--	--	--
US ARMS CONTROL & DISARMAMENT AGENCY	794	--	50	744	--	223	--	170	53	--

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	895,104	6,409	231,328	543,598	113,769	654,663	192,481	143,488	112,628	206,066
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	25,910	-	23,418	2,492	-	10,293	3,578	6,715	-	-
FOREST SERVICE	2,855	-	1,741	1,114	-	8,775	2,298	6,477	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,055	-	21,677	1,378	-	1,518	1,280	238	-	-
AGRICULTURAL RESEARCH	18,472	-	17,094	1,378	-	921	683	238	-	-
COOPERATIVE RESEARCH	4,583	-	4,583	-	-	597	597	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	30,250	784	8,824	20,642	-	81,785	30,293	1,484	50,008	-
NATIONAL BUREAU OF STANDARDS	25,867	110	7,814	17,943	-	388	233	155	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,383	674	1,010	2,699	-	81,397	30,060	1,329	50,008	-
DEPARTMENT OF DEFENSE, TOTAL	342,497	3,595	52,537	182,491	103,874	87,644	46,735	16,973	15,429	8,507
DEPARTMENT OF THE ARMY	85,735	-	30,014	20,673	35,048	16,411	5,765	4,308	360	5,978
DEPARTMENT OF THE NAVY	65,218	2,895	7,130	50,898	4,295	18,259	2,159	-	14,100	-
DEPARTMENT OF THE AIR FORCE	79,698	700	15,030	63,968	-	29,550	25,912	3,288	-	350
DEFENSE AGENCIES	110,211	-	254	45,426	64,531	25,424	12,899	9,377	969	2,179
DEFENSE CIVIL PREPAREDNESS AGENCY	1,635	-	109	1,526	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	332,515	-	24,948	307,567	-	100,456	12,630	27,782	12,070	47,974
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	26,921	-	23,988	2,933	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	728	-	728	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	26,193	-	23,260	2,933	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,396	-	7,239	1,157	-	50,318	8,321	35,120	190	6,687
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	950	-	950	-	-	9,100	-	6,300	-	2,800
BUREAU OF RECLAMATION	-	-	-	-	-	8,056	7,871	15	170	-
GEOLOGICAL SURVEY	6,876	-	5,854	1,022	-	25,462	-	25,462	-	-
NATIONAL PARK SERVICE	-	-	-	-	-	680	-	453	-	227
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	-	-	-	-	3,830	200	650	-	2,980
OFFICE OF WATER RSCH & TECHNOLOGY	570	-	435	135	-	3,090	250	2,140	20	680
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	376	-	-	57	319
DEPARTMENTAL FUNDS	-	-	-	-	-	376	-	-	57	319
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	2,535	1,380	-	1,155	-
COAST GUARD	-	-	-	-	-	1,155	-	-	1,155	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	1,380	1,380	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,437	-	306	314	817	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,277	-	281	179	817	-	-	-	-	-
CUSTOMS SERVICE	110	-	-	110	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	87,000	-	82,000	5,000	-	6,000	2,000	2,500	1,500	-
NATIONAL AERONAUTICS & SPACE ADMIN	28,604	1,930	310	17,286	9,078	310,453	87,284	49,001	31,919	142,249
NATIONAL SCIENCE FOUNDATION	7,541	100	4,125	3,316	-	4,598	260	3,738	270	330
TENNESSEE VALLEY AUTHORITY	3,603	-	3,603	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	430	-	30	400	-	205	-	175	30	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,101,733	418,350	161,763	136,515	134,858	414,224	250,523	166,121	419,379
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,141	-	-	2,967	4,275	170	1,936	-	22,793
FOREST SERVICE	8,796	-	-	837	1,815	70	1,117	-	4,957
SCIENCE & EDUCATION ADMINISTRATION	23,345	-	-	2,130	2,460	100	819	-	17,836
AGRICULTURAL RESEARCH	20,196	-	-	2,130	2,460	100	819	-	14,687
COOPERATIVE RESEARCH	3,149	-	-	-	-	-	-	-	3,149
DEPARTMENT OF COMMERCE, TOTAL	21,540	20	-	389	5,353	4,124	1,505	2,295	7,854
MARITIME ADMINISTRATION	3,870	-	-	-	2,709	387	387	-	387
NATIONAL BUREAU OF STANDARDS	14,825	20	-	389	1,851	1,717	1,118	2,295	7,435
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,760	-	-	-	793	935	-	-	32
NAT'L TELECOMM & INFORMATION ADMIN	1,085	-	-	-	-	1,085	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	923,894	142,866	38,442	31,107	26,239	349,919	184,910	58,837	91,575
DEPARTMENT OF THE ARMY	169,021	24,854	800	8,798	14,607	69,708	23,575	10,328	16,351
DEPARTMENT OF THE NAVY	152,783	14,655	4,032	9,350	4,431	41,775	29,862	12,302	36,376
DEPARTMENT OF THE AIR FORCE	414,925	87,503	17,311	10,550	1,911	148,605	114,416	28,980	5,649
DEFENSE AGENCIES	185,249	15,854	16,299	2,409	4,585	89,517	16,864	7,227	32,494
DEFENSE CIVIL PREPAREDNESS AGENCY	1,916	-	-	-	705	313	193	-	705
DEPARTMENT OF ENERGY, TOTAL	161,515	-	-	40,663	4,114	17,570	1,286	22,671	75,211
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	32,079	-	-	-	-	-	-	-	32,079
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	136	-	-	-	-	-	-	-	136
HUMAN DEVELOPMENT SERVICES	6,338	-	-	-	-	-	-	-	6,338
NATIONAL INSTITUTES OF HEALTH	25,605	-	-	-	-	-	-	-	25,605
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	2,639	-	-	-	-	-	-	-	2,639
DEPARTMENT OF THE INTERIOR, TOTAL	51,293	-	-	4,746	13,776	820	4,560	25,910	1,481
BUREAU OF MINES	38,850	-	-	4,600	4,400	500	3,850	25,500	-
BUREAU OF RECLAMATION	2,010	-	-	26	1,809	175	-	-	-
GEOLOGICAL SURVEY	6,038	-	-	-	4,522	125	710	-	681
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	595	-	-	-	245	-	-	350	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,800	-	-	120	2,800	20	-	60	800
DEPARTMENT OF JUSTICE, TOTAL	1,089	-	-	-	-	589	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SVC	189	-	-	-	-	189	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF STATE, TOTAL	911	-	-	-	-	-	-	-	911
AGENCY FOR INTERNAT'L DEVELOPMENT	911	-	-	-	-	-	-	-	911
DEPARTMENT OF TRANSPORTATION, TOTAL	80,248	2,711	442	-	44,302	1,949	8,263	254	2,327
COAST GUARD	1,895	-	-	-	1,237	234	424	-	-
FEDERAL AVIATION ADMINISTRATION	6,800	976	442	-	4,442	940	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,900	-	-	-	4,594	-	-	254	52
FEDERAL RAILROAD ADMINISTRATION	9,158	-	-	-	3,431	775	2,677	-	2,275
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	32,942	-	-	-	27,780	-	5,162	-	-
OFFICE OF THE SECRETARY	3,353	1,735	-	-	1,618	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	100	-	-	-	100	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	634	-	-	-	-	-	-	559	75
BUREAU OF ENGRAVING AND PRINTING	634	-	-	-	-	-	-	559	75
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	291	-	-	-	-	-	-	-	291
ENVIRONMENTAL PROTECTION AGENCY	92,950	-	-	39,828	33,673	7,780	11,669	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,105	-	-	-	-	1,105	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,777	-	-	261	93	181	841	-	401
GENERAL SERVICES ADMINISTRATION	332	-	-	-	32	250	-	-	50
INTERNATIONAL COMMUNICATION AGENCY	115	-	-	-	-	115	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	552,585	272,628	122,879	15,898	1,564	24,098	34,813	54,315	26,390
NATIONAL SCIENCE FOUNDATION	19,479	125	-	616	1,437	680	676	1,280	14,665
NUCLEAR REGULATORY COMMISSION	133,891	-	-	-	-	-	-	-	133,891
TENNESSEE VALLEY AUTHORITY	5,782	-	-	-	-	4,779	64	-	939
US ARMS CONTROL & DISARMAMENT AGENCY	376	-	-	40	-	96	-	-	240
VETERANS ADMINISTRATION	5,067	-	-	-	-	-	-	-	5,067

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,273,039	466,232	159,196	119,777	172,495	444,341	286,767	174,984	449,247
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	34,743	-	-	3,575	4,002	137	1,895	-	25,134
FOREST SERVICE	9,378	-	-	893	1,935	74	1,191	-	5,285
SCIENCE & EDUCATION ADMINISTRATION	25,365	-	-	2,682	2,067	63	704	-	19,849
AGRICULTURAL RESEARCH	21,852	-	-	2,682	2,067	63	704	-	16,336
COOPERATIVE RESEARCH	3,513	-	-	-	-	-	-	-	3,513
DEPARTMENT OF COMMERCE, TOTAL	23,736	30	-	797	5,812	6,485	2,124	2,308	5,980
MARITIME ADMINISTRATION	4,140	-	-	-	2,898	414	414	-	414
NATIONAL BUREAU OF STANDARDS	15,067	30	-	797	2,054	2,402	1,710	2,508	5,566
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,037	-	-	-	860	1,177	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	2,492	-	-	-	-	2,492	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	967,899	155,148	43,113	34,408	27,435	359,948	196,824	57,852	93,171
DEPARTMENT OF THE ARMY	160,836	18,508	907	10,462	15,928	63,300	25,845	11,179	14,707
DEPARTMENT OF THE NAVY	165,393	16,297	2,752	11,324	4,271	46,699	31,874	10,135	42,041
DEPARTMENT OF THE AIR FORCE	440,818	94,601	18,869	10,300	2,310	160,557	118,631	27,830	7,720
DEFENSE AGENCIES	199,552	25,742	20,585	2,322	4,458	89,184	20,318	8,708	28,235
DEFENSE CIVIL PREPAREDNESS AGENCY	1,300	-	-	-	468	208	156	-	468
DEPARTMENT OF ENERGY, TOTAL	183,501	-	-	14,300	33,265	27,723	13,935	20,086	74,192
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	34,126	-	-	-	-	-	-	-	34,126
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	162	-	-	-	-	-	-	-	162
HUMAN DEVELOPMENT SERVICES	6,370	-	-	-	-	-	-	-	6,370
NATIONAL INSTITUTES OF HEALTH	27,594	-	-	-	-	-	-	-	27,594
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	1,811	-	-	-	-	-	-	-	1,811
DEPARTMENT OF THE INTERIOR, TOTAL	70,357	-	-	5,595	13,373	752	7,065	42,415	1,157
BUREAU OF MINES	60,850	-	-	5,475	6,725	475	6,425	41,750	-
BUREAU OF RECLAMATION	1,815	-	-	20	1,553	122	120	-	-
GEOLOGICAL SURVEY	4,872	-	-	-	3,665	130	520	-	557
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	825	-	-	-	250	-	-	575	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,995	-	-	100	1,180	25	-	90	600
DEPARTMENT OF JUSTICE, TOTAL	1,781	-	-	-	-	1,281	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	-	-	-	1,000	-	-	-
IMMIGRATION & NATURALIZATION SVC	281	-	-	-	-	281	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF TRANSPORTATION, TOTAL	67,811	1,289	584	-	50,675	2,593	10,213	296	2,161
COAST GUARD	5,112	-	-	-	3,337	630	1,145	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	1,289	584	-	5,880	1,247	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,600	-	-	-	5,243	-	-	296	61
FEDERAL RAILROAD ADMINISTRATION	8,457	-	-	-	3,169	716	2,472	-	2,100
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,453	-	-	-	28,210	-	5,243	-	-
OFFICE OF THE SECRETARY	1,895	-	-	-	1,895	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,294	-	-	-	1,941	-	1,353	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	1,000	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	685	-	-	-	-	-	-	605	80
BUREAU OF ENGRAVING AND PRINTING	685	-	-	-	-	-	-	605	80
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	443	-	-	-	-	-	-	-	443
ENVIRONMENTAL PROTECTION AGENCY	94,230	-	-	41,600	34,900	9,400	8,330	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,500	-	-	-	-	1,500	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,564	-	-	187	86	145	784	-	362
GENERAL SERVICES ADMINISTRATION	672	-	-	-	82	540	-	-	50
INTERNATIONAL COMMUNICATION AGENCY	164	-	-	-	-	164	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	596,903	309,635	115,499	18,615	1,376	25,708	44,778	49,808	31,484
NATIONAL SCIENCE FOUNDATION	20,579	130	-	650	1,489	755	740	1,414	15,401
NUCLEAR REGULATORY COMMISSION	151,580	-	-	-	-	-	-	-	151,580
TENNESSEE VALLEY AUTHORITY	14,693	-	-	-	-	7,160	79	-	7,454
US ARMS CONTROL & DISARMAMENT AGENCY	150	-	-	50	-	50	-	-	50
VETERANS ADMINISTRATION	4,111	-	-	-	-	-	-	-	4,111

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	ENGINEERING							
		AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,372,119	514,699	158,887	134,331	153,154	502,930	263,063	160,065	484,990
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,793	-	-	3,382	3,773	129	1,783	-	23,726
FOREST SERVICE	8,775	-	-	836	1,811	69	1,114	-	4,945
SCIENCE & EDUCATION ADMINISTRATION	24,018	-	-	2,546	1,962	60	669	-	18,781
AGRICULTURAL RESEARCH	20,750	-	-	2,546	1,962	60	669	-	15,513
COOPERATIVE RESEARCH	3,268	-	-	-	-	-	-	-	3,268
DEPARTMENT OF COMMERCE, TOTAL	24,431	30	-	804	5,274	7,827	1,486	2,831	6,179
MARITIME ADMINISTRATION	3,330	-	-	-	2,331	333	333	-	333
NATIONAL BUREAU OF STANDARDS	16,159	30	-	804	2,073	3,422	1,153	2,831	5,846
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,882	-	-	-	870	1,012	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	3,060	-	-	-	-	3,060	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,061,579	172,659	38,522	36,422	40,904	428,348	185,034	58,230	101,460
DEPARTMENT OF THE ARMY	198,758	28,583	938	8,482	18,601	83,068	26,953	11,741	20,392
DEPARTMENT OF THE NAVY	166,000	16,290	2,800	11,056	4,149	46,695	31,258	10,511	43,241
DEPARTMENT OF THE AIR FORCE	486,420	109,430	21,500	14,670	11,160	186,751	108,049	24,910	9,950
DEFENSE AGENCIES	207,676	18,356	13,284	2,214	6,013	111,398	18,447	11,068	26,896
DEFENSE CIVIL PREPAREDNESS AGENCY	2,725	-	-	-	981	436	327	-	981
DEPARTMENT OF ENERGY, TOTAL	135,615	-	-	24,500	5,000	13,940	2,000	13,311	76,864
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	33,299	-	-	-	-	-	-	-	33,299
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	188	-	-	-	-	-	-	-	188
HUMAN DEVELOPMENT SERVICES	5,536	-	-	-	-	-	-	-	5,536
NATIONAL INSTITUTES OF HEALTH	27,575	-	-	-	-	-	-	-	27,575
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	3,077	-	-	-	-	-	-	-	3,077
DEPARTMENT OF THE INTERIOR, TOTAL	67,287	-	-	4,955	15,400	325	5,450	40,000	1,157
BUREAU OF MINES	53,050	-	-	4,750	4,400	-	4,500	39,400	-
BUREAU OF RECLAMATION	2,263	-	-	30	1,923	300	10	-	-
GEOLOGICAL SURVEY	6,679	-	-	-	5,182	-	940	-	557
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	800	-	-	-	300	-	-	500	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,495	-	-	175	3,595	25	-	100	600
DEPARTMENT OF JUSTICE, TOTAL	1,500	-	-	-	-	1,000	-	-	500
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	-	-	800	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	500	-	-	-	-	-	-	-	500
DEPARTMENT OF TRANSPORTATION, TOTAL	59,238	1,117	507	-	43,961	2,433	9,025	284	1,911
COAST GUARD	5,852	-	-	-	3,820	721	1,311	-	-
FEDERAL AVIATION ADMINISTRATION	7,800	1,117	507	-	5,096	1,080	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,400	-	-	-	5,058	-	-	284	58
FEDERAL RAILROAD ADMINISTRATION	7,462	-	-	-	2,796	632	2,181	-	1,853
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	27,388	-	-	-	23,095	-	4,293	-	-
OFFICE OF THE SECRETARY	1,316	-	-	-	1,316	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	3,020	-	-	-	1,780	-	1,240	-	-
URBAN MASS TRANSPORTATION ADMIN	1,000	-	-	-	1,000	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	623	-	-	-	-	-	-	550	73
BUREAU OF ENGRAVING AND PRINTING	623	-	-	-	-	-	-	550	73
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	235	-	-	-	-	-	-	-	235
ENVIRONMENTAL PROTECTION AGENCY	100,720	-	-	44,300	37,300	10,500	8,620	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,500	-	-	-	-	1,500	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,548	-	-	184	84	143	780	-	357
GENERAL SERVICES ADMINISTRATION	1,367	-	-	-	142	1,225	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	140	-	-	-	-	140	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	628,568	340,738	119,858	19,099	25	26,585	48,034	43,226	31,003
NATIONAL SCIENCE FOUNDATION	22,737	155	-	685	1,291	770	770	1,633	17,433
NUCLEAR REGULATORY COMMISSION	176,270	-	-	-	-	-	-	-	176,270
TENNESSEE VALLEY AUTHORITY	15,310	-	-	-	-	7,925	81	-	7,304
US ARMS CONTROL & DISARMAMENT AGENCY	390	-	-	-	-	140	-	-	250
VETERANS ADMINISTRATION	3,892	-	-	-	-	-	-	-	3,892

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	143,321	41,006	91,984	10,331	382,678	7,569	130,327	5,571	41,829	197,382
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,548	3,548	-	-	57,663	131	53,241	-	3,326	1,083
ECON, STAT & COOPERATIVES SERVICE	1,439	1,439	-	-	27,337	-	25,898	-	863	576
FOREST SERVICE	907	907	-	-	6,214	-	4,957	-	1,257	-
SCIENCE & EDUCATION ADMINISTRATION	1,202	1,202	-	-	24,112	131	22,386	-	1,206	507
AGRICULTURAL RESEARCH	1,202	1,202	-	-	3,688	131	3,043	-	125	507
COOPERATIVE RESEARCH	-	-	-	-	20,424	-	19,343	-	1,081	-
DEPARTMENT OF COMMERCE, TOTAL	4,272	3,587	685	-	7,633	-	7,424	-	209	-
BUREAU OF THE CENSUS	1,171	978	193	-	460	-	251	-	209	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	3,222	-	3,222	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	430	-	430	-	-	-
NATIONAL BUREAU OF STANDARDS	2,489	2,302	187	-	3,241	-	3,241	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	612	307	305	-	280	-	280	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	89,673	10,483	71,266	7,924	21,110	-	1,033	2,003	1,330	16,744
DEPARTMENT OF THE ARMY	5,300	991	4,309	-	17,640	-	235	-	661	16,744
DEPARTMENT OF THE NAVY	21,695	1,936	19,084	675	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	40,000	4,502	33,418	2,080	-	-	-	-	-	-
DEFENSE AGENCIES	22,033	2,409	14,455	5,169	1,686	-	-	1,686	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	645	645	-	-	1,784	-	798	317	669	-
DEPARTMENT OF ENERGY, TOTAL	300	-	300	-	325	-	120	-	205	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	6,539	6,383	156	-	170,832	3,096	19,040	244	23,889	124,563
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	718	562	156	-	17,415	3,096	184	112	12,162	1,861
HEALTH CARE FINANCING ADMIN	-	-	-	-	19,400	-	-	-	-	19,400
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	5,000	-	-	-	-	5,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	20,525	-	196	-	2,380	17,949
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	16,340	-	-	-	-	16,340
NATIONAL INSTITUTES OF HEALTH	5,821	5,821	-	-	11,986	-	-	-	-	11,986
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,316	-	-	-	-	1,316
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	27,511	-	1,071	132	1,808	24,500
OFFICE OF EDUCATION	-	-	-	-	13,311	-	-	-	-	13,311
OFFICE OF THE SECRETARY	-	-	-	-	25,128	-	17,589	-	7,539	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	12,900	-	-	-	-	12,900
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	27,896	-	17,094	-	-	10,802
DEPARTMENT OF THE INTERIOR, TOTAL	3,743	2,273	1,360	110	4,174	2,270	559	640	485	220
BUREAU OF LAND MANAGEMENT	-	-	-	-	86	-	-	-	86	-
BUREAU OF MINES	2,150	2,150	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	129	-	50	-	79	-
GEOLOGICAL SURVEY	1,057	123	934	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	2,399	2,270	9	-	120	-
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	426	-	426	-	60	-	-	-	-	60
OFFICE OF WATER RSCH & TECHNOLOGY	110	-	-	110	1,500	-	500	640	200	160
DEPARTMENT OF JUSTICE, TOTAL	150	150	-	-	26,629	-	525	-	7,779	18,325
BUREAU OF PRISONS	-	-	-	-	679	-	75	-	135	469
LAW ENFORCEMENT ASSISTANCE ADMIN	150	150	-	-	24,891	-	450	-	7,639	16,802
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,054	-	-	-	-	1,054
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	21,699	-	15,542	-	557	5,600
BUREAU OF LABOR STATISTICS	-	-	-	-	782	-	782	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	3,737	-	3,737	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	11,069	-	4,912	-	557	5,600
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,611	-	2,611	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	1,300	-	1,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	2,200	-	2,200	-	-	-
DEPARTMENT OF STATE, TOTAL	11,582	10,490	-	1,092	9,225	2,190	2,857	-	1,300	2,878
AGENCY FOR INTERNAT'L DEVELOPMENT	11,582	10,490	-	1,092	7,158	2,190	1,740	-	1,300	1,928
DEPARTMENTAL FUNDS	-	-	-	-	2,067	-	1,117	-	-	950
DEPARTMENT OF TRANSPORTATION, TOTAL	1,832	359	559	914	1,019	-	918	101	-	-
COAST GUARD	-	-	-	-	31	-	31	-	-	-
FEDERAL RAILROAD ADMINISTRATION	34	-	34	-	8	-	8	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,798	359	525	914	311	-	311	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	669	-	568	101	-	-
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	380	-	-	-	-	380
INTERNAL REVENUE SERVICE	-	-	-	-	380	-	-	-	-	380

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TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

- CONTINUED

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ACTION	-	-	-	-	231	-	-	-	231	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,685	-	842	843	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	320	-	320	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	711	-	711	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,961	-	-	-	1,961	-
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	300	-	-	-	-	300
ENVIRONMENTAL PROTECTION AGENCY	3,699	1,797	1,902	-	2,484	-	2,279	-	205	-
FEDERAL COMMUNICATIONS COMMISSION	83	-	-	83	1,212	-	1,212	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	159	159	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	977	-	977	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	904	-	904	-	-	-
INTERSTATE COMMERCE COMMISSION	100	100	-	-	150	-	150	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	16,183	1,341	14,842	-	49	-	-	29	-	20
NATIONAL SCIENCE FOUNDATION	1,161	336	825	-	18,699	-	1,460	415	357	16,467
US ARMS CONTROL & DISARMAMENT AGENCY	297	-	89	208	1,296	-	-	1,296	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,119	-	3,119	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES, NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	169,782	34,765	108,082	26,935	429,682	5,622	141,435	6,137	39,912	236,576
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,953	3,953	-	-	62,609	13	57,707	-	3,494	1,395
ECON, STAT & COOPERATIVES SERVICE	1,580	1,580	-	-	30,012	-	28,432	-	948	632
FOREST SERVICE	968	968	-	-	6,624	-	5,285	-	1,339	-
SCIENCE & EDUCATION ADMINISTRATION	1,405	1,405	-	-	25,973	13	23,990	-	1,207	763
AGRICULTURAL RESEARCH	1,405	1,405	-	-	3,183	13	2,407	-	-	763
COOPERATIVE RESEARCH	-	-	-	-	22,790	-	21,583	-	1,207	-
DEPARTMENT OF COMMERCE, TOTAL	5,284	4,668	616	-	8,018	-	7,717	70	231	-
BUREAU OF THE CENSUS	1,293	1,080	213	-	507	-	276	-	231	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	3,600	-	3,600	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	460	-	460	-	-	-
NATIONAL BUREAU OF STANDARDS	3,206	3,206	-	-	3,078	-	3,078	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	785	382	403	-	373	-	303	70	-	-
DEPARTMENT OF DEFENSE, TOTAL	111,048	10,034	84,667	16,347	28,572	-	822	2,240	1,115	24,395
DEPARTMENT OF THE ARMY	7,933	1,348	5,125	1,460	25,292	-	250	-	647	24,395
DEPARTMENT OF THE NAVY	26,489	1,838	23,543	1,108	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	45,672	4,929	38,583	2,160	-	-	-	-	-	-
DEFENSE AGENCIES	30,486	1,451	17,416	11,619	2,032	-	-	2,032	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	468	468	-	-	1,248	-	572	208	468	-
DEPARTMENT OF ENERGY, TOTAL	1,200	200	1,000	-	3,000	-	3,000	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	7,137	6,937	200	-	196,588	2,666	14,667	268	24,565	154,422
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	870	670	200	-	19,253	2,666	219	133	14,688	1,547
HEALTH CARE FINANCING ADMIN	-	-	-	-	32,500	-	-	-	-	32,500
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	1,100	-	-	-	-	1,100
HUMAN DEVELOPMENT SERVICES	-	-	-	-	27,706	-	197	-	2,392	25,117
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	20,800	-	-	-	-	20,800
NATIONAL INSTITUTES OF HEALTH	6,267	6,267	-	-	12,907	-	-	-	-	12,907
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,288	-	-	-	-	1,288
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	27,564	-	1,091	135	1,845	24,493
OFFICE OF EDUCATION	-	-	-	-	18,470	-	-	-	-	18,470
OFFICE OF THE SECRETARY	-	-	-	-	18,800	-	13,160	-	5,640	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	16,200	-	-	-	-	16,200
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	30,010	-	16,489	-	-	13,521
DEPARTMENT OF THE INTERIOR, TOTAL	5,970	4,424	1,426	120	5,316	2,943	644	700	632	397
BUREAU OF LAND MANAGEMENT	-	-	-	-	72	-	-	-	72	-
BUREAU OF MINES	4,275	4,275	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	110	-	28	-	82	-
GEOLOGICAL SURVEY	1,425	149	1,276	-	100	-	-	-	-	100
NATIONAL PARK SERVICE	-	-	-	-	3,234	2,943	161	-	176	97
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	150	-	150	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	120	-	-	120	1,800	-	600	700	300	200
DEPARTMENT OF JUSTICE, TOTAL	150	-	-	150	18,736	-	250	-	5,057	13,429
BUREAU OF PRISONS	-	-	-	-	1,461	-	250	-	377	834
LAW ENFORCEMENT ASSISTANCE ADMIN	150	-	-	150	15,830	-	-	-	4,680	11,150
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,445	-	-	-	-	1,445
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	27,988	-	21,826	-	562	5,600
BUREAU OF LABOR STATISTICS	-	-	-	-	912	-	912	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	5,813	-	5,813	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	11,134	-	4,972	-	562	5,600
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,783	-	2,783	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	800	-	800	-	-	-
DEPARTMENT OF STATE, TOTAL	9,245	-	-	9,245	12,751	-	2,191	-	2,806	7,754
AGENCY FOR INTERNAT'L DEVELOPMENT	9,245	-	-	9,245	10,753	-	1,095	-	2,806	6,852
DEPARTMENTAL FUNDS	-	-	-	-	1,998	-	1,096	-	-	902
DEPARTMENT OF TRANSPORTATION, TOTAL	1,859	365	565	929	2,119	-	1,864	255	-	-
COAST GUARD	-	-	-	-	79	-	79	-	-	-
FEDERAL RAILROAD ADMINISTRATION	32	-	32	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,827	365	533	929	324	-	324	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,705	-	1,450	255	-	-

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TABLE C-69. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,703	-	852	851	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	830	-	830	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	4,000	1,800	2,200	-	2,500	-	2,300	-	200	-
FEDERAL COMMUNICATIONS COMMISSION	85	-	-	85	1,815	-	1,815	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	199	199	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,076	-	1,076	-	-	-
INTERSTATE COMMERCE COMMISSION	120	120	-	-	145	-	145	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	17,444	1,710	15,734	-	75	-	-	43	-	32
NATIONAL SCIENCE FOUNDATION	1,754	355	1,399	-	18,161	-	1,815	465	250	15,631
US ARMS CONTROL & DISARMAMENT AGENCY	334	-	275	59	1,575	-	330	1,245	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,285	-	3,285	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	194,241	34,138	115,292	44,811	442,783	6,872	144,734	6,056	42,189	242,932
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,990	3,990	-	-	63,695	13	58,831	-	3,427	1,424
ECON, STAT & COOPERATIVES SERVICE	1,751	1,751	-	-	33,273	-	31,522	-	1,051	700
FOREST SERVICE	905	905	-	-	6,199	-	4,945	-	1,254	-
SCIENCE & EDUCATION ADMINISTRATION	1,334	1,334	-	-	24,223	13	22,364	-	1,122	724
AGRICULTURAL RESEARCH	1,334	1,334	-	-	3,023	13	2,286	-	-	724
COOPERATIVE RESEARCH	-	-	-	-	21,200	-	20,078	-	1,122	-
DEPARTMENT OF COMMERCE, TOTAL	5,346	4,770	576	-	3,638	-	3,382	-	256	-
BUREAU OF THE CENSUS	1,436	1,199	237	-	563	-	307	-	256	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,600	-	1,600	-	-	-
MARITIME ADMINISTRATION	-	-	-	-	370	-	370	-	-	-
NATIONAL BUREAU OF STANDARDS	3,236	3,236	-	-	1,105	-	1,105	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	674	335	339	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	120,433	10,171	84,991	25,271	35,864	-	1,529	1,912	1,843	30,580
DEPARTMENT OF THE ARMY	8,244	1,500	5,301	1,443	28,972	-	330	-	862	27,780
DEPARTMENT OF THE NAVY	27,503	1,917	24,251	1,335	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	45,588	5,035	40,313	240	-	-	-	-	-	-
DEFENSE AGENCIES	38,117	738	15,126	22,253	4,276	-	-	1,476	-	2,800
DEFENSE CIVIL PREPAREDNESS AGENCY	981	981	-	-	2,616	-	1,199	436	981	-
DEPARTMENT OF ENERGY, TOTAL	2,000	-	2,000	-	3,000	-	3,000	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	7,341	7,041	300	-	218,569	3,774	14,760	273	26,015	173,747
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,079	779	300	-	22,573	3,774	25	155	16,589	1,800
HEALTH CARE FINANCING ADMIN	-	-	-	-	51,300	-	-	-	-	51,300
HUMAN DEVELOPMENT SERVICES	-	-	-	-	27,921	-	171	-	2,079	25,671
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	22,100	-	-	-	-	22,100
NATIONAL INSTITUTES OF HEALTH	6,262	6,262	-	-	12,898	-	-	-	-	12,898
OFFICE OF ASST'T SECY FOR EDUC	-	-	-	-	1,486	-	-	-	-	1,486
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	24,060	-	954	118	1,612	21,376
OFFICE OF EDUCATION	-	-	-	-	18,316	-	-	-	-	18,316
OFFICE OF THE SECRETARY	-	-	-	-	19,115	-	13,380	-	5,735	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	18,800	-	-	-	-	18,800
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	-	-	-	-	24,700	-	20,482	-	-	4,218
DEPARTMENT OF THE INTERIOR, TOTAL	6,192	4,253	1,819	120	5,433	3,085	682	700	664	302
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,100	4,100	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	168	-	65	-	103	-
GEOLOGICAL SURVEY	1,822	153	1,669	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	3,390	3,085	17	-	186	102
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	150	-	150	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	120	-	-	120	1,800	-	600	700	300	200
DEPARTMENT OF JUSTICE, TOTAL	150	-	-	150	14,498	-	650	500	4,760	8,588
LAW ENFORCEMENT ASSISTANCE ADMIN	150	-	-	150	12,788	-	650	500	4,760	6,878
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,710	-	-	-	-	1,710
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	28,702	-	22,949	-	553	5,200
BUREAU OF LABOR STATISTICS	-	-	-	-	864	-	864	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	7,056	-	7,056	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	10,684	-	4,931	-	553	5,200
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,752	-	2,752	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	800	-	800	-	-	-
DEPARTMENT OF STATE, TOTAL	18,375	-	-	18,375	7,120	-	2,560	-	2,071	2,489
AGENCY FOR INTERNAT'L DEVELOPMENT	18,375	-	-	18,375	5,721	-	1,815	-	2,071	1,835
DEPARTMENTAL FUNDS	-	-	-	-	1,399	-	745	-	-	654
DEPARTMENT OF TRANSPORTATION, TOTAL	1,523	299	464	760	1,552	-	1,375	177	-	-
COAST GUARD	-	-	-	-	93	-	93	-	-	-
FEDERAL RAILROAD ADMINISTRATION	28	-	28	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	1,495	299	436	760	265	-	265	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,184	-	1,007	177	-	-

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TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

* CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,683	-	842	841	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	730	-	730	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	2,000	-	-	-	2,000	-
ENVIRONMENTAL PROTECTION AGENCY	6,000	2,000	4,000	-	2,500	-	2,300	-	200	-
FEDERAL COMMUNICATIONS COMMISSION	85	-	-	85	1,815	-	1,815	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	196	196	-	-	-	-	-	-	-	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,325	-	1,325	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	975	-	975	-	-	-
INTERSTATE COMMERCE COMMISSION	120	120	-	-	180	-	180	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	20,443	948	19,495	-	751	-	-	431	-	32
NATIONAL SCIENCE FOUNDATION	1,847	350	1,497	-	19,131	-	1,924	455	400	16,352
US ARMS CONTROL & DISARMAMENT AGENCY	200	-	150	50	1,350	-	195	1,155	-	-
US INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,648	-	3,648	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	16,663,378	3,605,119	10,046,774	1,007,309	466,986	610,779	424,593	248,991	139,583	53,244
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,798	19,768	1,115	-	4,951	-	11	-	-	953
FOREST SERVICE	4,964	4,964	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	21,834	14,804	1,115	-	4,951	-	11	-	-	953
AGRICULTURAL RESEARCH	21,834	14,804	1,115	-	4,951	-	11	-	-	953
DEPARTMENT OF COMMERCE, TOTAL	90,890	32,170	22,236	-	10,083	35	15,700	189	10,443	34
BUREAU OF THE CENSUS	1,107	1,107	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	32,632	632	1,305	-	4,895	-	15,337	-	10,443	-
MARITIME ADMINISTRATION	12,600	613	11,217	-	335	-	246	189	-	-
NATIONAL BUREAU OF STANDARDS	9,782	9,376	381	-	-	-	25	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	33,530	19,183	9,333	-	4,853	35	92	-	-	34
NAT'L TELECOMM & INFORMATION ADMIN	723	723	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	516	516	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	9,612,425	2,563,065	6,496,438	97,670	157,349	31,894	78,451	172,999	182	13,817
DEPARTMENT OF THE ARMY	2,134,627	648,092	1,438,869	103	12,092	14,517	11,948	4,911	182	3,913
DEPARTMENT OF THE NAVY	3,596,416	933,492	2,416,799	97,567	88,472	5,010	46,178	4,820	-	4,078
DEPARTMENT OF THE AIR FORCE	3,576,622	848,197	2,482,019	-	55,585	11,982	18,528	154,485	-	5,826
DEFENSE AGENCIES	276,200	109,657	156,064	-	1,700	385	1,797	6,597	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	28,560	23,627	2,747	-	-	-	-	2,186	-	-
DEPARTMENT OF ENERGY, TOTAL	3,142,584	274,765	1,277,247	903,347	65,314	513,439	26,026	62,097	10,464	9,885
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	466,537	63,060	55,230	6,292	180,041	1,226	124,436	475	30,369	5,408
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,409	164	1,245	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	491	1	-	-	-	-	-	-	-	490
HEALTH SERVICES ADMINISTRATION	7,603	987	2,193	-	2,481	-	1,361	-	581	-
HUMAN DEVELOPMENT SERVICES	30,680	2,400	3,080	-	7,718	-	12,478	-	4,936	68
NATIONAL INSTITUTE OF EDUCATION	54,925	9,578	5,974	-	13,691	-	22,036	-	4,532	114
NATIONAL INSTITUTES OF HEALTH	348,266	47,395	40,402	6,292	150,400	1,226	85,081	475	12,267	4,728
OFFICE OF ASST'T SECY FOR HEALTH	3,559	1,335	108	-	1,082	-	958	-	68	8
OFFICE OF EDUCATION	19,604	1,200	2,228	-	5,669	-	2,522	-	7,985	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	39,188	14,029	11,600	-	-	-	11,756	-	1,803	-
DEPARTMENT OF THE INTERIOR, TOTAL	75,482	15,982	52,160	-	5,198	196	1,692	-	36	218
BUREAU OF LAND MANAGEMENT	190	106	-	-	84	-	-	-	-	-
BUREAU OF MINES	56,968	9,068	40,676	-	5,082	196	1,692	-	36	218
BUREAU OF RECLAMATION	640	608	-	-	32	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,984	500	11,484	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	5,700	5,700	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	15,197	2,992	4,724	-	1,545	-	3,600	160	2,176	-
BUREAU OF PRISONS	2,906	1,700	50	-	380	-	-	-	776	-
DRUG ENFORCEMENT ADMINISTRATION	1,400	400	1,000	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,825	275	1,550	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	189	158	31	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	8,300	449	1,800	-	1,165	-	3,326	160	1,400	-
OFFICE OF THE ATTORNEY GENERAL	577	10	293	-	-	-	274	-	-	-
DEPARTMENT OF LABOR, TOTAL	72,124	2,472	3,355	-	2,716	-	63,400	-	181	-
BUREAU OF LABOR STATISTICS	456	456	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	71,668	2,016	3,355	-	2,716	-	63,400	-	181	-
DEPARTMENT OF STATE, TOTAL	36,082	988	4,873	-	3,015	-	8,130	-	46	19,030
AGENCY FOR INTERNAT'L DEVELOPMENT	35,712	978	4,528	-	3,000	-	8,130	-	46	19,030
DEPARTMENTAL FUNDS	370	10	345	-	15	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	341,750	87,514	160,220	-	17,300	210	4,172	11,325	61,009	-
COAST GUARD	21,400	4,794	15,599	-	500	-	507	-	-	-
FEDERAL AVIATION ADMINISTRATION	103,700	25,243	67,227	-	600	210	-	10,420	-	-
FEDERAL HIGHWAY ADMINISTRATION	46,800	10,953	3,541	-	8,300	-	-	-	24,006	-
FEDERAL RAILROAD ADMINISTRATION	44,700	12,445	28,188	-	500	-	462	905	2,200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	28,300	2,335	5,618	-	1,800	-	2,735	-	15,812	-
OFFICE OF THE SECRETARY	27,550	14,324	9,158	-	3,600	-	468	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	800	178	622	-	-	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	68,500	17,242	30,267	-	2,000	-	-	-	18,991	-

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TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL(1)	EXTRAMURAL: UNITED STATES AND TERRITORIES: INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF THE TREASURY, TOTAL	5,784	2,214	1,959	-	55	-	-	1,536	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,560	24	-	-	-	-	-	1,536	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,800	1,446	354	-	-	-	-	-	-	-
CUSTOMS SERVICE	1,804	344	1,405	-	55	-	-	-	-	-
INTERNAL REVENUE SERVICE	600	400	200	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1,402	102	30	-	-	-	1,135	-	135	-
APPALACHIAN REGIONAL COMMISSION	140	10	130	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	22,339	1,500	-	-	-	-	20,839	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,900	1,958	907	-	-	-	35	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	131,966	44,665	41,244	-	1,450	-	23,718	-	19,333	1,556
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,166	1,203	296	-	15	-	477	-	175	-
GENERAL SERVICES ADMINISTRATION	516	76	440	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	12	12	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4,400	4,017	383	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,530,247	510,523	1,910,776	-	13,878	63,779	28,007	210	731	2,343
NATIONAL SCIENCE FOUNDATION	5,273	26	210	-	3,006	-	2,031	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	3,487	987	-	-	-	-	-	-	2,500	-
TENNESSEE VALLEY AUTHORITY	17,967	7,296	-	-	-	-	10,671	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,151	10	1,141	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	14,591	13,715	-	-	570	-	306	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	18,686,765	3,975,448	11,600,029	1,006,242	523,806	659,562	493,298	240,179	138,774	49,427
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,409	25,262	-	-	3,263	-	-	-	-	884
FOREST SERVICE	5,293	5,293	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	24,116	19,969	-	-	3,263	-	-	-	-	884
AGRICULTURAL RESEARCH	24,116	19,969	-	-	3,263	-	-	-	-	884
DEPARTMENT OF COMMERCE, TOTAL	102,926	39,680	25,080	-	15,920	70	11,435	241	11,000	-
BUREAU OF THE CENSUS	1,111	1,111	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	34,580	1,035	1,730	-	10,030	-	10,785	-	11,000	-
MARITIME ADMINISTRATION	13,600	1,157	11,693	-	268	-	241	241	-	-
NATIONAL BUREAU OF STANDARDS	16,528	11,253	4,700	-	300	-	275	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	34,927	22,944	6,957	-	4,822	70	134	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,662	1,662	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	518	518	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	10,848,754	2,806,398	7,439,489	100,250	158,454	40,808	76,455	194,964	206	31,730
DEPARTMENT OF THE ARMY	2,340,119	771,286	1,517,220	250	7,806	20,219	6,952	7,134	206	9,046
DEPARTMENT OF THE NAVY	4,173,132	997,040	2,913,138	100,000	88,641	5,597	48,604	5,729	-	16,383
DEPARTMENT OF THE AIR FORCE	3,938,190	869,426	2,794,255	-	61,042	14,992	20,479	171,695	-	6,301
DEFENSE AGENCIES	372,713	147,680	213,826	-	965	-	2,420	7,822	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	24,600	20,966	1,050	-	-	-	-	2,584	-	-
DEPARTMENT OF ENERGY, TOTAL	3,505,265	299,217	1,565,508	898,814	71,671	535,100	74,157	41,860	13,340	5,598
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	523,903	69,147	65,764	7,178	204,296	1,594	143,659	553	25,967	5,745
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,304	135	1,169	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	350	11	-	-	-	-	-	-	-	349
HEALTH SERVICES ADMINISTRATION	7,604	987	2,193	-	2,421	-	1,422	-	581	-
HUMAN DEVELOPMENT SERVICES	40,101	3,523	4,169	-	9,038	-	18,915	-	4,387	69
NATIONAL INSTITUTE OF EDUCATION	49,960	8,386	5,792	-	11,901	-	19,506	-	4,225	150
NATIONAL INSTITUTES OF HEALTH	398,800	53,377	46,261	7,178	172,743	1,594	97,412	553	14,505	5,177
OFFICE OF ASST'T SECY FOR HEALTH	3,811	1,352	101	-	1,106	-	1,157	-	95	-
OFFICE OF EDUCATION	21,973	1,386	6,079	-	7,087	-	5,247	-	2,174	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	35,930	13,653	10,060	-	-	-	10,779	-	1,438	-
DEPARTMENT OF THE INTERIOR, TOTAL	60,304	14,855	39,576	-	4,173	-	1,700	-	-	-
BUREAU OF LAND MANAGEMENT	214	141	-	-	73	-	-	-	-	-
BUREAU OF MINES	40,791	6,891	28,100	-	4,100	-	1,700	-	-	-
BUREAU OF RECLAMATION	523	523	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,976	500	11,476	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	6,800	6,800	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	12,351	3,164	3,857	-	648	-	3,359	-	1,323	-
BUREAU OF PRISONS	2,139	1,327	32	-	357	-	-	-	423	-
DRUG ENFORCEMENT ADMINISTRATION	2,800	1,000	1,200	-	-	-	600	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,275	225	1,050	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	282	160	122	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	5,600	450	1,200	-	291	-	2,759	-	900	-
OFFICE OF THE ATTORNEY GENERAL	255	2	253	-	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	71,665	2,118	3,384	-	2,408	-	63,562	-	193	-
EMPLOYMENT & TRAINING ADMIN	71,665	2,118	3,384	-	2,408	-	63,562	-	193	-
DEPARTMENT OF STATE, TOTAL	26,746	1,115	2,630	-	15,126	-	6,656	-	-	1,219
AGENCY FOR INTERNAT'L DEVELOPMENT	26,346	1,075	2,300	-	15,096	-	6,656	-	-	1,219
DEPARTMENTAL FUNDS	400	40	330	-	30	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	340,920	90,193	153,285	-	19,180	228	15,354	565	61,115	-
COAST GUARD	14,400	3,097	10,195	-	780	-	328	-	-	-
FEDERAL AVIATION ADMINISTRATION	112,600	27,364	73,108	-	600	228	10,735	565	-	-
FEDERAL HIGHWAY ADMINISTRATION	50,800	11,425	3,879	-	9,200	-	-	-	26,296	-
FEDERAL RAILROAD ADMINISTRATION	41,300	11,460	25,963	-	600	-	1,248	-	2,029	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	31,500	2,598	6,254	-	2,000	-	3,043	-	17,605	-
OFFICE OF THE SECRETARY	15,620	11,707	3,813	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	9,700	4,883	917	-	3,900	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	65,000	17,659	29,156	-	2,000	-	-	-	16,185	-

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TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL (1)	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF THE TREASURY, TOTAL	6,620	2,246	2,315	-	273	-	-	1,786	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,858	72	-	-	-	-	-	1,786	-	-
BUREAU OF ENGRAVING AND PRINTING	1,900	1,265	635	-	-	-	-	-	-	-
CUSTOMS SERVICE	2,062	409	1,380	-	273	-	-	-	-	-
INTERNAL REVENUE SERVICE	800	500	300	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1,584	114	-	-	-	-	1,470	-	-	-
APPALACHIAN REGIONAL COMMISSION	200	10	90	-	-	-	-	-	100	-
COMMUNITY SERVICES ADMINISTRATION	14,900	1,500	-	-	-	-	13,400	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	4,700	3,432	1,088	-	-	-	180	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	133,098	44,675	37,897	-	2,600	-	24,360	-	20,100	3,466
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,991	1,792	105	-	3	-	1,054	-	37	-
GENERAL SERVICES ADMINISTRATION	187	82	105	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	8	8	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4,600	4,100	500	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,897,198	513,445	2,248,472	-	20,000	81,762	32,069	210	455	785
NATIONAL SCIENCE FOUNDATION	7,850	40	314	-	5,888	-	1,608	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	3,524	1,024	-	-	-	-	-	-	2,500	-
TENNESSEE VALLEY AUTHORITY	34,775	22,807	-	-	-	-	11,968	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	570	60	510	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,787	15,311	-	-	403	-	73	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL (1)	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	19,139,635	4,033,264	11,979,676	986,781	560,264	662,152	433,272	305,864	137,194	41,168
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	27,910	23,091	-	-	3,879	-	-	-	-	940
FOREST SERVICE	4,954	4,954	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	22,956	18,137	-	-	3,879	-	-	-	-	940
AGRICULTURAL RESEARCH	22,956	18,137	-	-	3,879	-	-	-	-	940
DEPARTMENT OF COMMERCE, TOTAL	93,705	38,890	22,400	200	13,359	-	9,140	201	9,515	-
BUREAU OF THE CENSUS	1,467	1,467	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	28,500	855	1,425	-	8,261	-	8,440	-	9,515	-
MARITIME ADMINISTRATION	11,200	954	9,643	-	201	-	201	201	-	-
NATIONAL BUREAU OF STANDARDS	15,971	10,896	4,500	-	300	-	275	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	34,006	22,157	6,832	200	4,593	-	224	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	2,040	2,040	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	521	521	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	11,467,203	2,896,714	7,915,066	100,000	177,388	43,144	80,269	240,101	347	14,174
DEPARTMENT OF THE ARMY	2,542,076	823,994	1,673,620	-	6,592	20,569	7,050	8,844	347	1,060
DEPARTMENT OF THE NAVY	4,079,768	1,012,446	2,798,262	100,000	101,493	5,466	47,751	8,300	-	6,050
DEPARTMENT OF THE AIR FORCE	4,415,329	878,236	3,211,256	-	68,438	17,109	22,960	210,266	-	7,064
DEFENSE AGENCIES	399,880	156,420	229,978	-	865	-	2,508	10,109	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	30,150	25,618	1,950	-	-	-	-	2,582	-	-
DEPARTMENT OF ENERGY, TOTAL	3,390,863	274,765	1,528,931	879,005	85,885	513,439	26,026	62,463	10,464	9,885
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	508,425	66,747	60,913	6,986	200,122	1,310	141,535	524	24,693	5,595
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	1,662	257	1,405	-	-	-	-	-	-	-
HEALTH RESOURCES ADMINISTRATION	350	1	-	-	-	-	-	-	-	349
HEALTH SERVICES ADMINISTRATION	7,356	800	2,340	-	2,100	-	1,458	-	656	-
HUMAN DEVELOPMENT SERVICES	39,183	3,371	4,439	-	7,806	-	17,512	-	5,991	64
NATIONAL INSTITUTE OF EDUCATION	52,785	7,871	6,159	-	11,157	-	23,406	-	3,992	200
NATIONAL INSTITUTES OF HEALTH	394,500	52,183	45,407	6,986	173,213	1,310	96,054	524	13,841	4,982
OFFICE OF ASST'T SECY FOR HEALTH	3,160	1,217	88	-	967	-	800	-	88	-
OFFICE OF EDUCATION	9,431	1,047	1,075	-	4,879	-	2,305	-	125	-
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	36,332	13,443	10,173	-	-	-	11,263	-	1,453	-
DEPARTMENT OF THE INTERIOR, TOTAL	47,867	13,743	27,839	-	4,585	-	1,700	-	-	-
BUREAU OF LAND MANAGEMENT	192	77	-	-	115	-	-	-	-	-
BUREAU OF MINES	28,626	5,526	17,000	-	4,400	-	1,700	-	-	-
BUREAU OF RECLAMATION	710	640	-	-	70	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	11,439	600	10,839	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	6,900	6,900	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	11,228	2,770	3,539	-	1,275	-	1,938	600	1,106	-
BUREAU OF PRISONS	1,037	829	32	-	176	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	2,200	800	1,000	-	-	-	-	400	-	-
FEDERAL BUREAU OF INVESTIGATION	2,215	215	2,000	-	-	-	-	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	150	50	-	-	-	-	-	-	-
LAW ENFORCEMENT ASSISTANCE ADMIN	5,276	774	159	-	1,099	-	1,938	200	1,106	-
OFFICE OF THE ATTORNEY GENERAL	300	2	298	-	-	-	-	-	-	-
DEPARTMENT OF LABOR, TOTAL	54,027	1,846	3,509	-	2,562	-	45,920	-	190	-
EMPLOYMENT & TRAINING ADMIN	54,027	1,846	3,509	-	2,562	-	45,920	-	190	-
DEPARTMENT OF STATE, TOTAL	32,354	795	2,970	-	20,781	-	624	-	-	7,184
AGENCY FOR INTERNAT'L DEVELOPMENT	31,954	795	2,630	-	20,761	-	624	-	-	7,184
DEPARTMENTAL FUNDS	400	40	340	-	20	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	327,800	84,503	142,223	-	19,580	202	14,464	495	66,333	-
COAST GUARD	13,900	2,982	9,822	-	780	-	316	-	-	-
FEDERAL AVIATION ADMINISTRATION	99,600	24,205	64,598	-	600	202	9,500	495	-	-
FEDERAL HIGHWAY ADMINISTRATION	52,900	11,745	4,108	-	9,200	-	-	-	27,847	-
FEDERAL RAILROAD ADMINISTRATION	36,900	10,193	23,092	-	700	-	1,110	-	1,805	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	36,600	3,020	7,272	-	2,300	-	3,538	-	20,470	-
OFFICE OF THE SECRETARY	13,500	10,057	3,343	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	9,300	4,614	786	-	3,900	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	65,100	17,687	29,202	-	2,000	-	-	-	16,211	-

CONTINUED ON NEXT PAGE

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL(1)	EXTRAMURAL: UNITED STATES AND TERRITORIES: INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF THE TREASURY, TOTAL	7,923	2,572	3,207	590	270	-	-	1,284	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,383	99	-	-	-	-	-	1,284	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,700	1,205	495	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,940	768	2,312	590	270	-	-	-	-	-
INTERNAL REVENUE SERVICE	900	500	400	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1,620	135	-	-	-	-	1,485	-	-	-
APPALACHIAN REGIONAL COMMISSION	200	10	90	-	-	-	-	-	100	-
COMMUNITY SERVICES ADMINISTRATION	25,000	1,500	-	-	-	-	23,500	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	4,000	2,490	1,445	-	-	-	65	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	121,338	39,931	29,002	-	2,750	-	27,000	-	20,000	2,655
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,916	1,747	102	-	3	-	1,026	-	38	-
GENERAL SERVICES ADMINISTRATION	376	24	352	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4,800	4,300	500	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,902,966	518,665	2,225,725	-	21,000	104,057	32,133	196	495	735
NATIONAL SCIENCE FOUNDATION	9,000	60	440	-	6,700	-	1,800	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	3,754	1,254	-	-	-	-	-	-	2,500	-
TENNESSEE VALLEY AUTHORITY	39,471	26,187	-	-	-	-	13,284	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,600	150	1,250	-	100	-	100	-	-	-
VETERANS ADMINISTRATION	16,957	16,932	-	-	25	-	-	-	-	-

(1) INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-70. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1978	ESTIMATES 1979	ESTIMATES 1980	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	1,295.7	1,431.8	1,499.4	1,107.8	1,342.0	1,467.5
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	24.7	26.7	28.2	18.6	27.4	36.5
FOREST SERVICE	2.7	3.5	-	2.1	3.5	*
SCIENCE & EDUCATION ADMINISTRATION	22.0	23.2	28.2	16.5	23.9	36.5
AGRICULTURAL RESEARCH	22.0	23.2	28.2	16.5	23.9	36.5
DEPARTMENT OF COMMERCE, TOTAL	4.1	1.9	.6	3.5	.9	1.6
MARITIME ADMINISTRATION	1.0	.3	.4	.3	.3	.4
NATIONAL BUREAU OF STANDARDS	.8	1.6	.2	.9	.6	1.2
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	2.3	-	-	2.3	-	-
DEPARTMENT OF DEFENSE, TOTAL	232.6	164.3	260.6	312.6	212.5	212.3
DEPARTMENT OF THE ARMY	7.6	7.5	19.1	6.8	7.4	7.6
DEPARTMENT OF THE NAVY	48.3	71.2	82.3	49.1	68.1	80.7
DEPARTMENT OF THE AIR FORCE	160.1	60.0	125.0	250.1	124.2	110.1
DEFENSE AGENCIES	16.6	25.6	34.2	6.6	12.8	13.9
DEPARTMENT OF ENERGY, TOTAL	690.7	905.5	913.2	681.3	747.1	879.2
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	74.3	60.0	31.7	68.0	83.7	88.0
ALCOHOL DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	-	.4	-	-	.1	.3
FOOD & DRUG ADMINISTRATION	.9	3.5	.7	1.2	3.1	2.0
NATIONAL INSTITUTES OF HEALTH	73.4	56.2	31.0	66.8	80.5	85.8
DEPARTMENT OF THE INTERIOR, TOTAL	15.0	6.1	1.2	7.7	7.3	5.6
BUREAU OF MINES	7.1	2.1	-	.1	3.3	4.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	.6	.7	.7	.6	.7	.7
UNITED STATES FISH AND WILDLIFE SERVICE	7.3	3.3	.5	7.0	3.3	.9
DEPARTMENT OF STATE, TOTAL	.2	5.2	1.5	.1	3.6	1.0
AGENCY FOR INTERNATIONAL DEVELOPMENT	.2	5.2	1.5	.1	3.6	1.0
DEPARTMENT OF TRANSPORTATION, TOTAL	14.1	23.7	25.1	13.2	21.9	18.7
COAST GUARD	.7	.7	.8	.7	.7	.8
FEDERAL AVIATION ADMINISTRATION	1.0	9.0	5.0	1.0	8.6	4.8
FEDERAL HIGHWAY ADMINISTRATION	.4	1.3	7.0	.4	1.3	2.4
FEDERAL RAILROAD ADMINISTRATION	11.8	12.5	12.1	10.9	11.1	10.5
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	.2	.2	.2	.2	.2	.2
DEPARTMENT OF THE TREASURY, TOTAL	*	*	*	*	*	*
CUSTOMS SERVICE	*	*	*	*	*	*
OTHER AGENCIES						
CONSUMER PRODUCT SAFETY COMMISSION	.3	-	-	.3	-	-
ENVIRONMENTAL PROTECTION AGENCY	4.6	2.5	1.4	2.2	2.6	2.7
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	162.3	147.5	157.6	124.3	153.5	155.2
NATIONAL SCIENCE FOUNDATION	39.7	37.6	23.5	38.0	36.1	21.7
NUCLEAR REGULATORY COMMISSION	6.9	8.7	9.3	6.2	8.6	8.2
SMITHSONIAN INSTITUTION	.2	.9	.7	.1	.6	.9
TENNESSEE VALLEY AUTHORITY	21.9	32.7	31.6	21.9	32.7	31.6
VETERANS ADMINISTRATION	4.1	8.3	9.1	9.7	3.7	4.2

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-71. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,295,712	518,033	76,923	257,045	54,647	376,257	4,433	8,309	-	65
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	24,665	24,665	-	-	-	-	-	-	-	-
FOREST SERVICE	2,674	2,674	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	21,991	21,991	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	21,991	21,991	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,064	646	1,143	-	2,275	-	-	-	-	-
MARITIME ADMINISTRATION	1,000	92	908	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	789	554	235	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,275	-	-	-	2,275	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	232,600	217,190	12,673	20	2,298	100	319	-	-	-
DEPARTMENT OF THE ARMY	7,600	7,600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	48,300	48,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	160,100	160,100	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	16,600	1,190	12,673	20	2,298	100	319	-	-	-
DEPARTMENT OF ENERGY, TOTAL	690,677	5,479	51,936	251,360	22,344	349,419	1,994	8,080	-	65
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	74,273	62,273	-	-	9,890	-	2,110	-	-	-
FOOD & DRUG ADMINISTRATION	915	915	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	73,358	61,358	-	-	9,890	-	2,110	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,011	14,411	600	-	-	-	-	-	-	-
BUREAU OF MINES	7,111	7,111	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	600	-	600	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	7,300	7,300	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	190	-	75	-	105	-	10	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	190	-	75	-	105	-	10	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	14,100	5,554	8,546	-	-	-	-	-	-	-
COAST GUARD	700	700	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	1,000	1,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	400	400	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	11,800	3,254	8,546	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	23	23	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	23	23	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	303	303	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	4,623	4,623	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	162,340	154,705	-	-	-	7,635	-	-	-	-
NATIONAL SCIENCE FOUNDATION	39,700	1,950	1,950	-	17,735	18,065	-	-	-	-
NUCLEAR REGULATORY COMMISSION	6,932	-	-	5,665	-	1,038	-	229	-	-
SMITHSONIAN INSTITUTION	205	205	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	21,910	21,910	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	4,096	4,096	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-73. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,495,364	512,607	242,015	244,428	41,185	440,749	5,766	8,464	150	-
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	28,216	28,216	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	28,216	28,216	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	28,216	28,216	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	600	240	360	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	400	40	360	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	260,600	239,927	17,686	-	2,366	20	601	-	-	-
DEPARTMENT OF THE ARMY	19,100	19,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	82,300	82,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	125,000	125,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	34,200	13,527	17,686	-	2,366	20	601	-	-	-
DEPARTMENT OF ENERGY, TOTAL	913,158	7,210	212,705	237,728	19,552	425,249	3,100	7,464	150	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	31,715	20,715	-	-	9,000	-	2,000	-	-	-
FOOD & DRUG ADMINISTRATION	725	725	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	30,990	19,990	-	-	9,000	-	2,000	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,200	500	700	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	700	-	700	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,510	-	278	-	1,167	-	65	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	1,510	-	278	-	1,167	-	65	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	25,100	16,864	8,236	-	-	-	-	-	-	-
COAST GUARD	800	800	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	5,000	5,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,000	7,000	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	12,100	3,864	8,236	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	40	40	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	40	40	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	1,425	1,425	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	157,600	154,020	-	-	-	3,580	-	-	-	-
NATIONAL SCIENCE FOUNDATION	23,500	2,050	2,050	-	9,100	10,300	-	-	-	-
NUCLEAR REGULATORY COMMISSION	9,300	-	-	6,700	-	1,600	-	1,000	-	-
SMITHSONIAN INSTITUTION	723	723	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	31,588	31,588	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	9,089	9,089	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-72. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1979 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,431,764	441,937	257,028	225,332	74,015	418,563	5,451	9,188	250	-
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,743	26,743	-	-	-	-	-	-	-	-
FOREST SERVICE	3,527	3,527	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	23,216	23,216	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	23,216	23,216	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,908	588	1,320	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	300	30	270	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,608	558	1,050	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	164,300	148,498	13,110	-	2,241	20	431	-	-	-
DEPARTMENT OF THE ARMY	7,500	7,500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	71,200	71,200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	60,000	60,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	25,600	9,798	13,110	-	2,241	20	431	-	-	-
DEPARTMENT OF ENERGY, TOTAL	905,522	9,730	231,195	218,612	41,269	392,616	2,962	8,888	250	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	60,024	48,024	-	-	10,000	-	2,000	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	350	350	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	3,465	3,465	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	56,209	44,209	-	-	10,000	-	2,000	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	6,098	5,398	700	-	-	-	-	-	-	-
BUREAU OF MINES	2,148	2,148	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	700	-	700	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,250	3,250	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	5,158	-	195	-	4,905	-	58	-	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	5,158	-	195	-	4,905	-	58	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	23,700	15,192	8,508	-	-	-	-	-	-	-
COAST GUARD	700	700	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,000	9,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	1,300	1,300	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	12,500	3,992	8,508	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	42	42	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	42	42	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,490	2,490	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	147,500	141,273	-	-	-	6,227	-	-	-	-
NATIONAL SCIENCE FOUNDATION	37,600	2,000	2,000	-	15,600	18,000	-	-	-	-
NUCLEAR REGULATORY COMMISSION	8,720	-	-	6,720	-	1,700	-	300	-	-
SMITHSONIAN INSTITUTION	937	937	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	32,680	32,680	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	8,342	8,342	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-74. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	2,776,204	3,145,654	3,294,064
LIFE SCIENCES, TOTAL	1,606,100	1,852,386	1,896,972
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	811,500	943,236	968,969
ENVIRONMENTAL BIOLOGY	28,743	31,164	36,906
AGRICULTURAL	105,006	120,826	128,750
MEDICAL	601,360	686,830	690,620
LIFE SCIENCES, NEC	59,491	70,330	71,727
PSYCHOLOGY, TOTAL	67,207	79,932	87,060
BIOLOGICAL ASPECTS	24,341	29,236	33,782
SOCIAL ASPECTS	25,317	30,539	33,164
PSYCHOLOGICAL SCIENCES, NEC	17,549	20,157	20,114
PHYSICAL SCIENCES, TOTAL	366,160	407,200	440,933
ASTRONOMY	37,426	40,401	45,076
CHEMISTRY	122,772	138,832	153,186
PHYSICS	198,871	220,842	235,797
PHYSICAL SCIENCES, NEC	7,091	7,125	6,874
ENVIRONMENTAL SCIENCES, TOTAL	225,674	251,120	272,886
ATMOSPHERIC	60,437	67,217	74,984
GEOLOGICAL	59,132	66,546	73,618
OCEANOGRAPHY	92,253	100,510	107,567
ENVIRONMENTAL SCIENCES, NEC	13,852	16,847	16,717
MATHEMATICS & COMPUTER SCIENCES, TOTAL	78,903	90,790	100,167
MATHEMATICS	40,777	45,216	50,058
COMPUTER SCIENCES	36,164	39,879	42,512
MATHEMATICS & COMPUTER SCIENCES, NEC	1,962	5,695	7,597
ENGINEERING, TOTAL	247,011	264,385	287,574
AERONAUTICAL	25,051	27,815	30,802
ASTRONAUTICAL	3,409	3,800	4,077
CHEMICAL	27,005	22,563	24,644
CIVIL	8,133	8,806	10,880
ELECTRICAL	53,032	52,750	62,215
MECHANICAL	25,273	28,296	28,389
METALLURGY & MATERIALS	48,559	56,624	62,578
ENGINEERING, NEC	56,549	63,731	63,989
SOCIAL SCIENCES, TOTAL	141,208	156,218	155,552
ANTHROPOLOGY	7,004	9,644	9,185
ECONOMICS	42,548	45,516	45,492
POLITICAL SCIENCE	3,610	5,423	4,126
SOCIOLOGY	21,043	22,446	25,642
SOCIAL SCIENCES, NEC	67,003	73,189	71,107
OTHER SCIENCES, NEC	43,941	43,623	52,920

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978, 1979, AND 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,776,204	1,606,100	67,207	366,160	225,674	78,903	247,011	141,208	43,941
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	181,419	132,826	-	9,044	968	310	5,551	32,720	-
ECON, STAT & COOPERATIVES SERVICE	2,184	-	-	-	-	210	-	1,974	-
FOREST SERVICE	10,023	9,837	-	-	106	-	-	80	-
SCIENCE & EDUCATION ADMINISTRATION	169,212	122,989	-	9,044	862	100	5,551	30,666	-
AGRICULTURAL RESEARCH	17,555	14,412	-	2,174	-	100	846	23	-
COOPERATIVE RESEARCH	151,657	108,577	-	6,870	862	-	4,705	30,643	-
DEPARTMENT OF DEFENSE, TOTAL	247,313	20,801	10,256	43,019	50,168	32,593	88,942	971	563
DEPARTMENT OF THE ARMY	40,211	10,534	1,630	7,346	2,849	4,101	13,349	353	49
DEPARTMENT OF THE NAVY	90,739	6,121	3,143	16,087	40,328	11,588	13,472	-	-
DEPARTMENT OF THE AIR FORCE	88,469	4,079	2,991	16,666	5,687	7,249	51,797	-	-
DEFENSE AGENCIES	27,674	-	2,426	2,913	1,304	9,627	10,317	577	510
DEFENSE CIVIL PREPAREDNESS AGENCY	220	67	66	7	-	28	7	41	4
DEPARTMENT OF ENERGY, TOTAL	174,760	35,063	-	84,955	16,740	3,000	33,177	325	1,500
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,522,252	1,312,949	47,712	33,327	-	3,681	24,271	70,715	29,597
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	94,534	43,372	32,942	229	-	659	159	17,173	-
CENTER FOR DISEASE CONTROL	6,188	6,188	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	11,237	11,237	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	1,700	-	-	-	-	-	-	1,700	-
HEALTH RESOURCES ADMINISTRATION	4,800	-	-	-	-	-	-	-	4,800
HEALTH SERVICES ADMINISTRATION	3,037	3,037	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	24,370	11,959	370	-	-	-	2,097	9,944	-
NATIONAL INSTITUTE OF EDUCATION	13,721	-	-	-	-	-	-	13,721	-
NATIONAL INSTITUTES OF HEALTH	1,342,575	1,237,156	14,400	33,098	-	3,022	22,015	8,087	24,797
OFFICE OF ASST'T SECY FOR HEALTH	9,739	-	-	-	-	-	-	9,739	-
OFFICE OF EDUCATION	6,529	-	-	-	-	-	-	6,529	-
OFFICE OF THE SECRETARY	2,696	-	-	-	-	-	-	2,696	-
SOCIAL SECURITY ADMINISTRATION	1,126	-	-	-	-	-	-	1,126	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	116,298	8,300	870	46,147	34,353	1,398	22,766	54	2,410
NATIONAL SCIENCE FOUNDATION	534,162	96,161	8,369	149,668	123,445	37,921	72,304	36,423	9,871

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-76. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	67,207	24,341	25,317	17,549	1,606,100	811,500	28,743	105,006	601,360	59,491
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	132,826	24,295	-	102,294	6,237	-
FOREST SERVICE	-	-	-	-	9,837	9,837	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	122,989	14,458	-	102,294	6,237	-
AGRICULTURAL RESEARCH	-	-	-	-	14,412	-	-	14,412	-	-
COOPERATIVE RESEARCH	-	-	-	-	108,577	14,458	-	87,882	6,237	-
DEPARTMENT OF DEFENSE, TOTAL	10,256	534	7,290	2,432	20,801	7,168	1,785	187	11,234	427
DEPARTMENT OF THE ARMY	1,630	25	1,605	-	10,534	1,058	352	180	8,894	50
DEPARTMENT OF THE NAVY	3,143	-	3,143	-	6,121	3,527	528	-	2,066	-
DEPARTMENT OF THE AIR FORCE	2,991	47	2,288	656	4,079	2,583	838	7	274	377
DEFENSE AGENCIES	2,426	462	188	1,776	-	-	-	-	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	66	-	66	-	67	-	67	-	-	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	35,063	27,479	-	2,000	165	5,419
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	47,712	18,492	14,820	14,400	1,312,949	680,258	-	525	581,191	50,975
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	32,942	18,492	14,450	-	43,372	30,528	-	525	3,498	8,821
CENTER FOR DISEASE CONTROL	-	-	-	-	6,188	-	-	-	6,188	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	11,237	9,214	-	-	2,023	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	3,037	-	-	-	3,037	-
HUMAN DEVELOPMENT SERVICES	370	-	370	-	11,959	-	-	-	11,959	-
NATIONAL INSTITUTES OF HEALTH	14,400	-	-	14,400	1,237,156	640,516	-	-	554,486	42,154
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	870	71	82	717	8,300	5,770	-	-	2,530	-
NATIONAL SCIENCE FOUNDATION	8,369	5,244	3,125	-	96,161	66,530	26,958	-	31	2,670

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-77. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONO-MY	CHEM-ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	366,160	37,426	122,772	198,871	7,091	225,674	60,437	59,132	92,253	13,852
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	9,044	-	8,875	169	-	968	968	-	-	-
FOREST SERVICE	-	-	-	-	-	106	106	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	9,044	-	8,875	169	-	862	862	-	-	-
AGRICULTURAL RESEARCH	2,174	-	2,005	169	-	-	-	-	-	-
COOPERATIVE RESEARCH	6,870	-	6,870	-	-	862	862	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	43,019	2,862	11,784	26,523	1,850	50,168	7,510	5,690	33,543	3,425
DEPARTMENT OF THE ARMY	7,346	-	3,681	3,034	631	2,849	1,842	916	-	91
DEPARTMENT OF THE NAVY	16,087	771	2,401	12,918	-	40,328	729	3,130	33,502	2,967
DEPARTMENT OF THE AIR FORCE	16,666	2,091	5,665	8,904	6	5,687	4,448	872	-	367
DEFENSE AGENCIES	2,913	-	37	1,663	1,213	1,304	491	772	41	-
DEFENSE CIVIL PREPAREDNESS AGENCY	7	-	-	7	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	84,955	-	12,666	72,289	-	16,740	1,306	6,587	6,282	2,565
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	33,327	-	32,200	1,127	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	229	-	229	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	33,098	-	31,971	1,127	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	46,147	18,840	3,749	18,336	5,222	34,353	17,653	8,729	232	7,739
NATIONAL SCIENCE FOUNDATION	149,668	15,724	53,498	80,427	19	123,445	33,000	38,126	52,196	123

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-78. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	247,011	25,051	3,409	27,005	8,133	53,052	25,272	48,559	56,549
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	5,551	-	-	-	25	82	-	-	5,444
SCIENCE & EDUCATION ADMINISTRATION	5,551	-	-	-	25	82	-	-	5,444
AGRICULTURAL RESEARCH	846	-	-	-	25	82	-	-	739
COOPERATIVE RESEARCH	4,705	-	-	-	-	-	-	-	4,705
DEPARTMENT OF DEFENSE, TOTAL	88,942	14,872	2,878	5,826	706	30,965	15,970	16,845	880
DEPARTMENT OF THE ARMY	13,349	1,314	-	123	525	6,291	1,910	2,878	308
DEPARTMENT OF THE NAVY	13,472	815	-	4,123	-	2,776	3,100	2,358	-
DEPARTMENT OF THE AIR FORCE	51,797	12,668	2,775	1,280	126	14,813	10,960	8,689	486
DEFENSE AGENCIES	10,317	75	103	-	55	7,085	-	2,920	79
DEFENSE CIVIL PREPAREDNESS AGENCY	7	-	-	-	-	-	-	-	7
DEPARTMENT OF ENERGY, TOTAL	33,177	-	-	11,889	500	100	1,000	13,300	6,388
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	24,271	-	-	-	-	-	-	-	24,271
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	159	-	-	-	-	-	-	-	159
HUMAN DEVELOPMENT SERVICES	2,097	-	-	-	-	-	-	-	2,097
NATIONAL INSTITUTES OF HEALTH	22,015	-	-	-	-	-	-	-	22,015
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	22,766	9,494	531	262	40	3,462	1,505	4,045	3,427
NATIONAL SCIENCE FOUNDATION	72,304	685	-	9,028	6,862	18,423	6,798	14,369	16,139

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	78,903	40,777	36,164	1,962	141,208	7,004	42,548	3,610	21,043	67,003
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	310	310	-	-	32,720	-	31,033	-	1,660	27
ECON, STAT & COOPERATIVES SERVICE	210	210	-	-	1,974	-	1,909	-	38	27
FOREST SERVICE	-	-	-	-	80	-	80	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	100	100	-	-	30,666	-	29,044	-	1,622	-
AGRICULTURAL RESEARCH	100	100	-	-	23	-	23	-	-	-
COOPERATIVE RESEARCH	-	-	-	-	30,643	-	29,021	-	1,622	-
DEPARTMENT OF DEFENSE, TOTAL	32,593	12,989	17,642	1,962	971	-	174	587	210	-
DEPARTMENT OF THE ARMY	4,101	2,680	1,421	-	353	-	170	-	183	-
DEPARTMENT OF THE NAVY	11,588	6,150	5,438	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	7,249	4,131	2,980	138	-	-	-	-	-	-
DEFENSE AGENCIES	9,627	-	7,803	1,824	577	-	-	577	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	28	28	-	-	41	-	4	10	27	-
DEPARTMENT OF ENERGY, TOTAL	3,000	1,950	1,050	-	325	-	120	-	205	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	3,681	3,681	-	-	70,715	2,228	2,668	179	15,666	49,974
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	659	659	-	-	17,173	2,228	216	130	13,148	1,451
HEALTH CARE FINANCING ADMIN	-	-	-	-	1,700	-	-	-	-	1,700
HUMAN DEVELOPMENT SERVICES	-	-	-	-	9,944	-	169	-	1,039	8,736
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	13,721	-	-	-	-	13,721
NATIONAL INSTITUTES OF HEALTH	3,022	3,022	-	-	8,087	-	-	-	-	8,087
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	9,739	-	396	49	670	8,624
OFFICE OF EDUCATION	-	-	-	-	6,529	-	-	-	-	6,529
OFFICE OF THE SECRETARY	-	-	-	-	2,696	-	1,887	-	809	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	1,126	-	-	-	-	1,126
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,398	712	686	-	54	-	-	29	-	25
NATIONAL SCIENCE FOUNDATION	37,921	21,135	16,786	-	36,423	4,776	8,553	2,815	3,302	16,977

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-80. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	1,726,094	2,019,937	2,170,346
LIFE SCIENCES, TOTAL	925,876	1,120,847	1,164,729
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	566,777	684,940	708,977
ENVIRONMENTAL BIOLOGY	28,406	30,844	35,432
AGRICULTURAL	43,740	50,428	62,685
MEDICAL	254,693	314,683	317,038
LIFE SCIENCES, NEC	32,260	39,952	40,597
PSYCHOLOGY, TOTAL	35,271	43,149	47,321
BIOLOGICAL ASPECTS	12,868	15,868	17,973
SOCIAL ASPECTS	14,286	17,342	19,121
PSYCHOLOGICAL SCIENCES, NEC	8,117	9,939	10,227
PHYSICAL SCIENCES, TOTAL	296,922	331,532	371,128
ASTRONOMY	35,863	38,448	43,000
CHEMISTRY	100,921	113,924	130,226
PHYSICS	155,797	174,345	192,782
PHYSICAL SCIENCES, NEC	4,341	4,815	5,120
ENVIRONMENTAL SCIENCES, TOTAL	190,240	210,951	232,274
ATMOSPHERIC	52,123	57,897	65,553
GEOLOGICAL	50,890	58,243	65,383
OCEANOGRAPHY	79,928	86,609	93,033
ENVIRONMENTAL SCIENCES, NEC	7,299	8,202	8,305
MATHEMATICS & COMPUTER SCIENCES, TOTAL	63,698	71,725	81,205
MATHEMATICS	35,975	39,872	44,517
COMPUTER SCIENCES	26,686	28,546	31,085
MATHEMATICS & COMPUTER SCIENCES, NEC	1,037	3,307	5,603
ENGINEERING, TOTAL	147,062	165,310	186,882
AERONAUTICAL	16,273	18,055	20,091
ASTRONAUTICAL	2,131	2,370	2,550
CHEMICAL	9,383	10,278	11,936
CIVIL	6,243	6,555	7,525
ELECTRICAL	35,254	34,836	40,878
MECHANICAL	15,088	16,628	18,929
METALLURGY & MATERIALS	42,896	50,170	57,557
ENGINEERING, NEC	19,794	26,418	27,416
SOCIAL SCIENCES, TOTAL	55,677	62,401	64,199
ANTHROPOLOGY	5,005	8,085	6,743
ECONOMICS	20,071	20,011	21,510
POLITICAL SCIENCE	2,655	3,996	3,193
SOCIOLOGY	8,540	8,611	10,340
SOCIAL SCIENCES, NEC	19,406	21,698	22,453
OTHER SCIENCES, NEC	11,348	14,022	22,608

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978, 1979, AND 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-81. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,726,094	925,876	35,271	296,922	190,240	63,698	147,062	55,677	11,348
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	77,712	60,366	-	3,615	401	46	2,060	11,224	-
ECON, STAT & COOPERATIVES SERVICE	275	-	-	-	-	-	-	275	-
FOREST SERVICE	6,209	6,054	-	-	95	-	-	60	-
SCIENCE & EDUCATION ADMINISTRATION	71,228	54,312	-	3,615	306	46	2,060	10,889	-
AGRICULTURAL RESEARCH	8,102	6,651	-	1,004	-	46	390	11	-
COOPERATIVE RESEARCH	63,126	47,661	-	2,611	306	-	1,670	10,878	-
DEPARTMENT OF DEFENSE, TOTAL	155,855	10,528	7,807	26,726	40,817	20,857	48,761	72	287
DEPARTMENT OF THE ARMY	24,103	2,249	1,202	5,121	2,693	3,438	9,328	72	-
DEPARTMENT OF THE NAVY	67,182	5,874	2,634	9,577	34,334	6,900	7,863	-	-
DEPARTMENT OF THE AIR FORCE	49,547	2,405	2,368	11,918	3,780	4,602	24,474	-	-
DEFENSE AGENCIES	15,023	-	1,603	110	10	5,917	7,096	-	287
DEPARTMENT OF ENERGY, TOTAL	85,514	9,414	-	57,897	1,100	3,000	12,603	-	1,500
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	816,653	745,472	18,683	22,757	-	1,383	6,665	16,825	4,868
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	35,746	18,162	12,204	214	-	231	56	4,879	-
HUMAN DEVELOPMENT SERVICES	2,122	2,122	-	-	-	-	-	-	-
NATIONAL INSTITUTE OF EDUCATION	7,675	-	-	-	-	-	-	7,675	-
NATIONAL INSTITUTES OF HEALTH	767,602	725,188	6,479	22,543	-	1,152	6,609	763	4,868
OFFICE OF ASST'T SECY FOR HEALTH	1,082	-	-	-	-	-	-	1,082	-
OFFICE OF THE SECRETARY	2,426	-	-	-	-	-	-	2,426	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	88,341	5,289	412	39,780	25,965	1,048	14,774	5	1,068
NATIONAL SCIENCE FOUNDATION	502,019	94,807	8,369	146,147	121,957	37,364	62,199	27,551	3,625

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-82. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	35,271	12,868	14,286	8,117	925,876	566,777	28,406	43,740	254,693	32,260
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	60,366	14,412	-	43,740	2,214	-
FOREST SERVICE	-	-	-	-	6,054	6,054	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	54,312	8,358	-	43,740	2,214	-
AGRICULTURAL RESEARCH	-	-	-	-	6,651	-	-	6,651	-	-
COOPERATIVE RESEARCH	-	-	-	-	47,661	8,358	-	37,089	2,214	-
DEPARTMENT OF DEFENSE, TOTAL	7,807	462	5,966	1,379	10,528	5,288	1,448	-	3,415	377
DEPARTMENT OF THE ARMY	1,202	-	1,202	-	2,249	639	109	-	1,501	-
DEPARTMENT OF THE NAVY	2,634	-	2,634	-	5,874	3,432	528	-	1,914	-
DEPARTMENT OF THE AIR FORCE	2,368	-	2,130	238	2,405	1,217	811	-	-	377
DEFENSE AGENCIES	1,603	462	-	1,141	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	9,414	9,414	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	18,683	7,091	5,113	6,479	745,472	465,892	-	-	249,064	30,516
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	12,204	7,091	5,113	-	18,162	13,536	-	-	1,868	2,758
HUMAN DEVELOPMENT SERVICES	-	-	-	-	2,122	-	-	-	2,122	-
NATIONAL INSTITUTES OF HEALTH	6,479	-	-	6,479	725,188	452,356	-	-	245,074	27,758
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	412	71	82	259	5,289	5,289	-	-	-	-
NATIONAL SCIENCE FOUNDATION	8,369	5,244	3,125	-	94,807	66,482	26,958	-	-	1,367

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-83. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	296,922	35,863	100,921	155,797	4,341	190,240	52,123	50,890	79,928	7,299
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,615	-	3,537	78	-	401	401	-	-	-
FOREST SERVICE	-	-	-	-	-	95	95	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	3,615	-	3,537	78	-	306	306	-	-	-
AGRICULTURAL RESEARCH	1,004	-	926	78	-	-	-	-	-	-
COOPERATIVE RESEARCH	2,611	-	2,611	-	-	306	306	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	26,726	2,796	9,551	14,379	-	40,817	5,340	4,599	27,518	3,360
DEPARTMENT OF THE ARMY	5,121	-	2,392	2,729	-	2,693	1,842	792	-	59
DEPARTMENT OF THE NAVY	9,577	771	2,401	6,405	-	34,334	729	3,130	27,508	2,967
DEPARTMENT OF THE AIR FORCE	11,918	2,025	4,758	5,135	-	3,780	2,769	677	-	334
DEFENSE AGENCIES	110	-	-	110	-	10	-	-	10	-
DEPARTMENT OF ENERGY, TOTAL	57,897	-	10,757	47,140	-	1,100	-	1,100	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	22,757	-	22,124	633	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	214	-	214	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	22,543	-	21,910	633	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	39,780	17,343	3,410	14,705	4,322	25,965	13,476	8,370	214	3,905
NATIONAL SCIENCE FOUNDATION	146,147	15,724	51,542	78,862	19	121,957	32,906	36,821	52,196	34

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-84. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	147,062	16,273	2,131	9,383	6,243	35,254	15,088	42,896	19,794
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	2,060	-	-	-	11	38	-	-	2,011
SCIENCE & EDUCATION ADMINISTRATION	2,060	-	-	-	11	38	-	-	2,011
AGRICULTURAL RESEARCH	390	-	-	-	11	38	-	-	341
COOPERATIVE RESEARCH	1,670	-	-	-	-	-	-	-	1,670
DEPARTMENT OF DEFENSE, TOTAL	48,761	8,507	1,635	585	195	16,287	7,964	13,474	114
DEPARTMENT OF THE ARMY	9,328	942	-	-	195	4,570	1,438	2,183	-
DEPARTMENT OF THE NAVY	7,863	659	-	-	-	2,066	3,100	2,038	-
DEPARTMENT OF THE AIR FORCE	24,474	6,906	1,635	585	-	5,027	3,426	6,781	114
DEFENSE AGENCIES	7,096	-	-	-	-	4,624	-	2,472	-
DEPARTMENT OF ENERGY, TOTAL	12,603	-	-	303	-	-	-	12,300	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	6,665	-	-	-	-	-	-	-	6,665
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	56	-	-	-	-	-	-	-	56
NATIONAL INSTITUTES OF HEALTH	6,609	-	-	-	-	-	-	-	6,609
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	14,774	7,196	496	56	10	1,159	975	3,615	1,267
NATIONAL SCIENCE FOUNDATION	62,199	570	-	8,439	6,027	17,770	6,149	13,507	9,737

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	63,698	35,975	26,686	1,037	55,677	5,005	20,071	2,655	8,540	19,406
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	46	46	-	-	11,224	-	10,621	-	595	8
ECON, STAT & COOPERATIVES SERVICE	-	-	-	-	275	-	248	-	19	8
FOREST SERVICE	-	-	-	-	60	-	60	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	46	46	-	-	10,889	-	10,313	-	576	-
AGRICULTURAL RESEARCH	46	46	-	-	11	-	11	-	-	-
COOPERATIVE RESEARCH	-	-	-	-	10,878	-	10,302	-	576	-
DEPARTMENT OF DEFENSE, TOTAL	20,857	10,983	8,837	1,037	72	-	-	-	72	-
DEPARTMENT OF THE ARMY	3,438	2,579	859	-	72	-	-	-	72	-
DEPARTMENT OF THE NAVY	6,900	4,571	2,329	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	4,602	3,833	769	-	-	-	-	-	-	-
DEFENSE AGENCIES	5,917	-	4,880	1,037	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	3,000	1,950	1,050	-	-	-	-	-	-	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,383	1,383	-	-	16,825	229	1,817	51	4,825	9,903
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	231	231	-	-	4,879	229	75	45	4,022	508
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	7,675	-	-	-	-	7,675
NATIONAL INSTITUTES OF HEALTH	1,152	1,152	-	-	763	-	-	-	-	763
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	1,082	-	44	6	75	957
OFFICE OF THE SECRETARY	-	-	-	-	2,426	-	1,698	-	728	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,048	675	373	-	5	-	-	-	-	5
NATIONAL SCIENCE FOUNDATION	37,364	20,938	16,426	-	27,551	4,776	7,633	2,604	3,048	9,490

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-86. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1978	ESTIMATES	
		1979	1980
TOTAL, ALL FIELDS	1,050,110	1,125,717	1,123,718
LIFE SCIENCES, TOTAL	680,224	731,539	732,243
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	244,723	258,296	259,992
ENVIRONMENTAL BIOLOGY	337	320	1,474
AGRICULTURAL	61,266	70,398	66,065
MEDICAL	346,667	372,147	373,582
LIFE SCIENCES, NEC	27,231	30,378	31,130
PSYCHOLOGY, TOTAL	31,936	36,783	39,739
BIOLOGICAL ASPECTS	11,473	13,368	15,809
SOCIAL ASPECTS	11,031	13,197	14,043
PSYCHOLOGICAL SCIENCES, NEC	9,432	10,218	9,887
PHYSICAL SCIENCES, TOTAL	69,238	75,668	69,805
ASTRONOMY	1,563	1,953	2,076
CHEMISTRY	21,851	24,908	22,960
PHYSICS	43,074	46,497	43,015
PHYSICAL SCIENCES, NEC	2,750	2,310	1,754
ENVIRONMENTAL SCIENCES, TOTAL	35,434	40,169	40,612
ATMOSPHERIC	8,314	9,320	9,431
GEOLOGICAL	8,242	8,303	8,235
OCEANOGRAPHY	12,325	13,901	14,534
ENVIRONMENTAL SCIENCES, NEC	6,553	8,645	8,412
MATHEMATICS & COMPUTER SCIENCES, TOTAL	15,205	19,065	18,962
MATHEMATICS	4,802	5,344	5,541
COMPUTER SCIENCES	9,478	11,333	11,427
MATHEMATICS & COMPUTER SCIENCES, NEC	925	2,388	1,994
ENGINEERING, TOTAL	99,949	99,075	100,692
AERONAUTICAL	8,778	9,760	10,711
ASTRONAUTICAL	1,278	1,430	1,527
CHEMICAL	17,622	12,285	12,708
CIVIL	1,890	2,251	3,355
ELECTRICAL	17,778	17,914	21,337
MECHANICAL	10,185	11,668	9,460
METALLURGY & MATERIALS	5,663	6,454	5,021
ENGINEERING, NEC	36,755	37,313	36,573
SOCIAL SCIENCES, TOTAL	85,531	93,817	91,353
ANTHROPOLOGY	1,999	1,559	2,442
ECONOMICS	22,477	25,505	23,982
POLITICAL SCIENCE	955	1,427	973
SOCIOLOGY	12,503	13,835	15,302
SOCIAL SCIENCES, NEC	47,597	51,491	48,654
OTHER SCIENCES, NEC	32,593	29,601	30,312

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978, 1979, AND 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-87. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,050,110	680,224	31,936	69,238	35,434	15,205	99,949	85,531	32,593
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	103,707	72,460	-	5,429	567	264	3,491	21,496	-
ECON, STAT & COOPERATIVES SERVICE	1,909	-	-	-	-	210	-	1,699	-
FOREST SERVICE	3,814	3,783	-	-	11	-	-	20	-
SCIENCE & EDUCATION ADMINISTRATION	97,984	68,677	-	5,429	556	54	3,491	19,777	-
AGRICULTURAL RESEARCH	9,453	7,761	-	1,170	-	54	456	12	-
COOPERATIVE RESEARCH	88,531	60,916	-	4,259	556	-	3,035	19,765	-
DEPARTMENT OF DEFENSE, TOTAL	91,458	10,273	2,449	16,293	9,351	11,736	40,181	899	276
DEPARTMENT OF THE ARMY	16,108	8,285	428	2,225	156	663	4,021	281	49
DEPARTMENT OF THE NAVY	23,557	247	509	6,510	5,994	4,688	5,609	-	-
DEPARTMENT OF THE AIR FORCE	38,922	1,674	623	4,748	1,907	2,647	27,323	-	-
DEFENSE AGENCIES	12,651	-	823	2,803	1,294	3,710	3,221	577	223
DEFENSE CIVIL PREPAREDNESS AGENCY	220	67	66	7	-	28	7	41	4
DEPARTMENT OF ENERGY, TOTAL	89,246	25,649	-	27,058	15,640	-	20,574	325	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	705,599	567,477	29,029	10,570	-	2,298	17,606	53,890	24,729
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	58,788	25,210	20,738	15	-	428	103	12,294	-
CENTER FOR DISEASE CONTROL	6,188	6,188	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	11,237	11,237	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	1,700	-	-	-	-	-	-	1,700	-
HEALTH RESOURCES ADMINISTRATION	4,800	-	-	-	-	-	-	-	4,800
HEALTH SERVICES ADMINISTRATION	3,037	3,037	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	22,248	9,837	370	-	-	-	2,097	9,944	-
NATIONAL INSTITUTE OF EDUCATION	6,046	-	-	-	-	-	-	6,046	-
NATIONAL INSTITUTES OF HEALTH	574,973	511,968	7,921	10,555	-	1,870	15,406	7,324	19,929
OFFICE OF ASST'T SECY FOR HEALTH	8,657	-	-	-	-	-	-	8,657	-
OFFICE OF EDUCATION	6,529	-	-	-	-	-	-	6,529	-
OFFICE OF THE SECRETARY	270	-	-	-	-	-	-	270	-
SOCIAL SECURITY ADMINISTRATION	1,126	-	-	-	-	-	-	1,126	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	27,957	3,011	458	6,367	8,388	350	7,992	49	1,342
NATIONAL SCIENCE FOUNDATION	32,143	1,354	-	3,521	1,488	557	10,105	8,872	6,246

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-88. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	31,936	11,473	11,031	9,432	680,224	244,723	337	61,266	346,667	27,231
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	72,460	9,883	-	58,554	4,023	-
FOREST SERVICE	-	-	-	-	3,783	3,783	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	68,677	6,100	-	58,554	4,023	-
AGRICULTURAL RESEARCH	-	-	-	-	7,761	-	-	7,761	-	-
COOPERATIVE RESEARCH	-	-	-	-	60,916	6,100	-	50,793	4,023	-
DEPARTMENT OF DEFENSE, TOTAL	2,449	72	1,324	1,053	10,273	1,880	337	187	7,819	50
DEPARTMENT OF THE ARMY	428	25	403	-	8,285	419	243	180	7,393	50
DEPARTMENT OF THE NAVY	509	-	509	-	247	95	-	-	152	-
DEPARTMENT OF THE AIR FORCE	623	47	158	418	1,674	1,366	27	7	274	-
DEFENSE AGENCIES	823	-	188	635	-	-	-	-	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	66	-	66	-	67	-	67	-	-	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	25,649	18,065	-	2,000	165	5,419
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	29,029	11,401	9,707	7,921	567,477	214,366	-	525	332,127	20,459
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	20,738	11,401	9,337	-	25,210	16,992	-	525	1,630	6,063
CENTER FOR DISEASE CONTROL	-	-	-	-	6,188	-	-	-	6,188	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	11,237	9,214	-	-	2,023	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	3,037	-	-	-	3,037	-
HUMAN DEVELOPMENT SERVICES	370	-	370	-	9,837	-	-	-	9,837	-
NATIONAL INSTITUTES OF HEALTH	7,921	-	-	7,921	511,968	188,160	-	-	309,412	14,396
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	458	-	-	458	3,011	481	-	-	2,530	-
NATIONAL SCIENCE FOUNDATION	-	-	-	-	1,354	48	-	-	3	1,303

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-89. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONO-MY	CHEM-ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	69,238	1,563	21,851	43,074	2,750	35,434	8,314	8,242	12,325	6,553
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,429	-	5,338	91	-	567	567	-	-	-
FOREST SERVICE	-	-	-	-	-	11	11	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	5,429	-	5,338	91	-	556	556	-	-	-
AGRICULTURAL RESEARCH	1,170	-	1,079	91	-	-	-	-	-	-
COOPERATIVE RESEARCH	4,259	-	4,259	-	-	556	556	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,293	66	2,233	12,144	1,850	9,351	2,170	1,091	6,025	65
DEPARTMENT OF THE ARMY	2,225	-	1,289	305	631	156	-	124	-	32
DEPARTMENT OF THE NAVY	6,510	-	-	6,510	-	5,994	-	-	5,994	-
DEPARTMENT OF THE AIR FORCE	4,748	66	907	3,769	6	1,907	1,679	195	-	33
DEFENSE AGENCIES	2,803	-	37	1,553	1,213	1,294	491	772	31	-
DEFENSE CIVIL PREPAREDNESS AGENCY	7	-	-	7	-	-	-	-	-	-
DEPARTMENT OF ENERGY, TOTAL	27,058	-	1,909	25,149	-	15,640	1,306	5,487	6,282	2,565
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	10,570	-	10,076	494	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	15	-	15	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	10,555	-	10,061	494	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	6,367	1,497	339	3,631	900	8,388	4,177	359	18	3,834
NATIONAL SCIENCE FOUNDATION	3,521	-	1,956	1,565	-	1,488	94	1,305	-	89

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-90. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	99,949	8,778	1,278	17,622	1,890	17,778	10,185	5,663	36,755
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	3,491	-	-	-	14	44	-	-	3,433
SCIENCE & EDUCATION ADMINISTRATION	3,491	-	-	-	14	44	-	-	3,433
AGRICULTURAL RESEARCH	456	-	-	-	14	44	-	-	398
COOPERATIVE RESEARCH	3,035	-	-	-	-	-	-	-	3,035
DEPARTMENT OF DEFENSE, TOTAL	40,181	6,365	1,243	5,241	511	14,678	8,006	3,371	766
DEPARTMENT OF THE ARMY	4,021	372	-	123	330	1,721	472	695	308
DEPARTMENT OF THE NAVY	5,609	156	-	4,423	-	710	-	320	-
DEPARTMENT OF THE AIR FORCE	27,323	5,762	1,140	695	126	9,786	7,534	1,908	372
DEFENSE AGENCIES	3,221	75	103	-	55	2,461	-	448	79
DEFENSE CIVIL PREPAREDNESS AGENCY	7	-	-	-	-	-	-	-	7
DEPARTMENT OF ENERGY, TOTAL	20,574	-	-	11,586	500	100	1,000	1,000	6,388
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	17,606	-	-	-	-	-	-	-	17,606
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	103	-	-	-	-	-	-	-	103
HUMAN DEVELOPMENT SERVICES	2,097	-	-	-	-	-	-	-	2,097
NATIONAL INSTITUTES OF HEALTH	15,406	-	-	-	-	-	-	-	15,406
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	7,992	2,298	35	206	30	2,303	530	430	2,160
NATIONAL SCIENCE FOUNDATION	10,105	115	-	589	835	653	649	862	6,402

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	15,205	4,802	9,478	925	85,531	1,999	22,477	955	12,503	47,597
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	264	264	-	-	21,496	-	20,412	-	1,065	19
ECON, STAT & COOPERATIVES SERVICE	210	210	-	-	1,699	-	1,661	-	19	19
FOREST SERVICE	-	-	-	-	20	-	20	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	54	54	-	-	19,777	-	18,731	-	1,046	-
AGRICULTURAL RESEARCH	54	54	-	-	12	-	12	-	-	-
COOPERATIVE RESEARCH	-	-	-	-	19,765	-	18,719	-	1,046	-
DEPARTMENT OF DEFENSE, TOTAL	11,736	2,006	8,805	925	899	-	174	587	138	-
DEPARTMENT OF THE ARMY	663	101	562	-	281	-	170	-	111	-
DEPARTMENT OF THE NAVY	4,688	1,579	3,109	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	2,647	298	2,211	138	-	-	-	-	-	-
DEFENSE AGENCIES	3,710	-	2,923	787	577	-	-	577	-	-
DEFENSE CIVIL PREPAREDNESS AGENCY	28	28	-	-	41	-	4	10	27	-
DEPARTMENT OF ENERGY, TOTAL	-	-	-	-	325	-	120	-	205	-
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	2,298	2,298	-	-	53,890	1,999	851	128	10,841	40,071
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	428	428	-	-	12,294	1,999	141	85	9,126	943
HEALTH CARE FINANCING ADMIN	-	-	-	-	1,700	-	-	-	-	1,700
HUMAN DEVELOPMENT SERVICES	-	-	-	-	9,944	-	169	-	1,039	8,736
NATIONAL INSTITUTE OF EDUCATION	-	-	-	-	6,046	-	-	-	-	6,046
NATIONAL INSTITUTES OF HEALTH	1,870	1,870	-	-	7,324	-	-	-	-	7,324
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	8,657	-	352	43	595	7,667
OFFICE OF EDUCATION	-	-	-	-	6,529	-	-	-	-	6,529
OFFICE OF THE SECRETARY	-	-	-	-	270	-	189	-	81	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	1,126	-	-	-	-	1,126
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	350	37	313	-	49	-	-	29	-	20
NATIONAL SCIENCE FOUNDATION	557	197	360	-	8,872	-	920	211	254	7,487

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-92. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF ENERGY	DEPARTMENT OF H.E.W.	DEPARTMENT OF STATE	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL, ALL COUNTRIES	123,168	8,747	22,641	11,307	38,724	29,852	2,638	4,623	4,636
EUROPE, TOTAL	36,916	814	13,549	11,202	9,291	22	186	277	1,575
AUSTRIA	243	-	36	77	130	-	-	-	-
BELGIUM	930	-	767	-	158	-	-	5	-
DENMARK	142	-	15	-	84	-	-	-	43
FINLAND	378	-	-	90	288	-	-	-	-
FRANCE	1,669	357	198	28	703	-	-	65	318
ICELAND	170	-	-	110	60	-	-	-	-
IRELAND	287	-	222	-	65	-	-	-	-
ITALY	1,361	208	72	-	1,080	-	-	-	1
NETHERLANDS	2,133	249	1,187	-	638	-	-	-	59
NORWAY	891	-	863	-	28	-	-	-	-
POLAND	106	-	-	-	89	-	-	-	17
SPAIN	2,251	-	2,201	50	-	-	-	-	-
SWEDEN	1,925	-	47	82	1,746	-	-	-	50
SWITZERLAND	1,237	-	9	-	1,194	-	-	34	-
UNITED KINGDOM, TOTAL	14,696	-	4,713	6,849	2,464	22	5	166	477
ENGLAND	8,353	-	2,446	3,230	2,173	22	5	-	477
SCOTLAND	3,911	-	6	3,619	286	-	-	-	-
BERMUDA	71	-	-	-	-	-	-	71	-
OTHER UNITED KINGDOM	2,361	-	2,261	-	5	-	-	95	-
WEST GERMANY	4,831	-	3,219	416	586	-	15	7	610
YUGOSLAVIA	166	-	-	-	-	-	166	-	-
OTHER EUROPE	3,500	-	-	3,500	-	-	-	-	-
ASIA, TOTAL	21,563	3,473	1,267	-	3,070	11,795	159	1,780	19
BURMA	7	-	7	-	-	-	-	-	-
HONG KONG	1	-	-	-	1	-	-	-	-
INDIA	5,415	992	5	-	1,642	2,000	16	748	12
INDONESIA	1,378	-	-	-	-	1,378	-	-	-
JAPAN	657	84	-	-	573	-	-	-	-
SOUTH KOREA	122	-	111	-	11	-	-	-	-
MALAYSIA	500	-	500	-	-	-	-	-	-
PAKISTAN	3,379	1,734	-	-	483	-	143	1,032	7
PHILIPPINES	7,412	-	75	-	-	7,337	-	-	-
TAIWAN	958	-	569	-	259	130	-	-	-
THAILAND	784	663	-	-	121	-	-	-	-
OTHER ASIA	950	-	-	-	-	950	-	-	-
NEAR EAST, TOTAL	35,884	3,948	2,701	105	10,051	15,154	2,202	1,552	171
GREECE	97	-	-	90	7	-	-	-	-
ISRAEL	4,551	-	433	15	3,917	-	141	-	45
JORDAN	300	-	-	-	-	300	-	-	-
TURKEY	12	-	12	-	-	-	-	-	-
UNITED ARAB REPUBLIC	26,737	3,948	2,235	-	6,127	10,700	2,061	1,552	114
OTHER NEAR EAST	4,187	-	21	-	-	4,154	-	-	12
AFRICA, TOTAL	4,445	149	75	-	1,642	2,579	-	-	-
KENYA	196	126	70	-	-	-	-	-	-
SUDAN	5	-	5	-	-	-	-	-	-
UGANDA	25	-	-	-	25	-	-	-	-
UNION OF SOUTH AFRICA	53	-	-	-	53	-	-	-	-
OTHER AFRICA	4,166	23	-	-	1,564	2,579	-	-	-
LATIN AMERICA, TOTAL	2,605	363	547	-	356	302	-	985	52
ARGENTINA	1,286	75	32	-	142	-	-	985	52
BOLIVIA	11	-	-	-	11	-	-	-	-
BRAZIL	217	-	217	-	-	-	-	-	-
COLOMBIA	104	-	-	-	104	-	-	-	-
EL SALVADOR	288	288	-	-	-	-	-	-	-
MEXICO	93	-	-	-	93	-	-	-	-
PANAMA	101	-	101	-	-	-	-	-	-
PERU	193	-	43	-	-	150	-	-	-
URUGUAY	6	-	-	-	6	-	-	-	-
OTHER LATIN AMERICA	306	-	154	-	-	152	-	-	-
AUSTRALIA	1,054	-	41	-	934	-	-	-	79
CANADA	12,946	-	3,929	-	6,188	-	60	29	2,740
NEW ZEALAND	116	-	-	-	85	-	31	-	-
INTERNATIONAL ORGANIZATIONS	7,639	-	532	-	7,107	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF H.E.W.	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL, ALL COUNTRIES	24,624	3,253	6,880	9,345	3,680	1,403	63
EUROPE, TOTAL	5,575	351	2,076	2,807	277	47	17
AUSTRIA	108	-	36	72	-	-	-
BELGIUM	238	-	79	154	5	-	-
DENMARK	46	-	1	45	-	-	-
FINLAND	73	-	-	73	-	-	-
FRANCE	403	154	150	34	65	-	-
IRELAND	94	-	94	-	-	-	-
ITALY	335	90	72	173	-	-	-
NETHERLANDS	465	107	16	332	-	10	-
NORWAY	51	-	51	-	-	-	-
POLAND	17	-	-	-	-	-	17
SPAIN	11	-	11	-	-	-	-
SWEDEN	1,002	-	47	955	-	-	-
SWITZERLAND	205	-	9	162	34	-	-
UNITED KINGDOM, TOTAL	2,032	-	1,279	550	166	37	-
ENGLAND	1,805	-	1,261	507	-	37	-
SCOTLAND	49	-	6	43	-	-	-
BERMUDA	71	-	-	-	71	-	-
OTHER UNITED KINGDOM	107	-	12	-	95	-	-
WEST GERMANY	495	-	231	257	7	-	-
ASIA, TOTAL	3,466	1,239	929	72	1,207	-	19
BURMA	7	-	7	-	-	-	-
HONG KONG	1	-	-	1	-	-	-
INDIA	1,170	449	5	-	704	-	12
JAPAN	103	36	-	67	-	-	-
SOUTH KOREA	47	-	47	-	-	-	-
MALAYSIA	450	-	450	-	-	-	-
PAKISTAN	1,039	529	-	-	503	-	7
TAIWAN	424	-	420	4	-	-	-
THAILAND	225	225	-	-	-	-	-
NEAR EAST, TOTAL	7,161	1,447	2,668	1,837	1,182	-	27
GREECE	7	-	-	7	-	-	-
ISRAEL	2,265	-	421	1,829	-	-	15
TURKEY	12	-	12	-	-	-	-
UNITED ARAB REPUBLIC	4,865	1,447	2,235	1	1,182	-	-
OTHER NEAR EAST	12	-	-	-	-	-	12
AFRICA, TOTAL	129	60	68	1	-	-	-
KENYA	117	54	63	-	-	-	-
SUDAN	5	-	5	-	-	-	-
OTHER AFRICA	7	6	-	1	-	-	-
LATIN AMERICA, TOTAL	1,707	156	360	206	985	-	-
ARGENTINA	1,144	32	31	96	985	-	-
BOLIVIA	11	-	-	11	-	-	-
BRAZIL	190	-	190	-	-	-	-
EL SALVADOR	124	124	-	-	-	-	-
MEXICO	93	-	-	93	-	-	-
URUGUAY	6	-	-	6	-	-	-
OTHER LATIN AMERICA	139	-	139	-	-	-	-
AUSTRALIA	399	-	7	368	-	24	-
CANADA	3,635	-	760	1,514	29	1,332	-
NEW ZEALAND	69	-	-	69	-	-	-
INTERNATIONAL ORGANIZATIONS	2,483	-	12	2,471	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978		ESTIMATES			
			1979		1980	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	123,168	27,010	124,335	38,672	127,066	38,415
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	8,747	6,633	7,646	5,909	8,306	6,550
SCIENCE & EDUCATION ADMINISTRATION	8,747	6,633	7,646	5,909	8,306	6,550
AGRICULTURAL RESEARCH	8,747	6,633	7,646	5,909	8,306	6,550
DEPARTMENT OF COMMERCE, TOTAL	266	-	157	-	167	-
NATIONAL BUREAU OF STANDARDS	182	-	157	-	70	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	84	-	-	-	97	-
DEPARTMENT OF DEFENSE, TOTAL	22,641	2,235	45,415	6,764	27,873	6,666
DEPARTMENT OF THE ARMY	6,044	-	11,285	-	3,621	-
DEPARTMENT OF THE NAVY	8,031	2,235	25,206	6,764	14,658	6,666
DEPARTMENT OF THE AIR FORCE	8,106	-	8,646	-	9,594	-
DEFENSE AGENCIES	460	-	278	-	-	-
DEPARTMENT OF ENERGY, TOTAL	11,307	-	6,200	-	11,348	-
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	38,724	12,542	46,004	16,867	45,856	17,249
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,752	356	1,408	520	1,762	650
CENTER FOR DISEASE CONTROL	2,763	1,932	3,746	3,640	3,646	3,510
FOOD & DRUG ADMINISTRATION	525	246	1,450	1,040	1,972	1,560
HEALTH RESOURCES ADMINISTRATION	490	490	349	349	349	349
HEALTH SERVICES ADMINISTRATION	1,648	1,648	650	650	780	780
HUMAN DEVELOPMENT SERVICES	326	106	4,090	3,868	4,449	4,250
NATIONAL INSTITUTE OF EDUCATION	114	-	150	-	200	-
NATIONAL INSTITUTES OF HEALTH	28,523	5,462	31,391	4,030	30,318	3,770
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	2,383	2,302	2,770	2,770	2,380	2,380
OFFICE OF EDUCATION	200	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	266	48	2,000	2,000	1,000	1,000
BUREAU OF MINES	218	-	-	-	-	-
OFFICE OF THE SECRETARY	48	48	2,000	2,000	1,000	1,000
DEPARTMENT OF STATE, TOTAL	29,852	-	4,818	-	20,486	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	29,830	-	4,770	-	20,456	-
DEPARTMENTAL FUNDS	22	-	48	-	30	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	2,638	2,220	5,777	5,377	4,500	4,000
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	3,951	-	2,400	-	2,300	-
NATIONAL SCIENCE FOUNDATION	4,623	3,332	3,183	1,755	4,530	2,950
NUCLEAR REGULATORY COMMISSION	108	-	735	-	700	-
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	45	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-95. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978		ESTIMATES			
			1979		1980	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	24,624	9,269	29,909	14,548	31,239	14,720
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	3,253	2,405	2,822	2,132	3,066	2,369
SCIENCE & EDUCATION ADMINISTRATION	3,253	2,405	2,822	2,132	3,066	2,369
AGRICULTURAL RESEARCH	3,253	2,405	2,822	2,132	3,066	2,369
DEPARTMENT OF DEFENSE, TOTAL	6,880	2,235	10,795	6,764	11,943	6,666
DEPARTMENT OF THE ARMY	1,862	-	1,064	-	2,285	-
DEPARTMENT OF THE NAVY	3,801	2,235	8,531	6,764	8,358	6,666
DEPARTMENT OF THE AIR FORCE	1,217	-	1,200	-	1,300	-
DEPARTMENT OF ENERGY, TOTAL	15	-	15	-	15	-
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	9,365	2,192	10,381	2,597	10,022	2,435
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	620	356	787	520	976	650
NATIONAL INSTITUTES OF HEALTH	6,881	-	7,517	-	7,261	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	1,844	1,836	2,077	2,077	1,785	1,785
DEPARTMENT OF THE INTERIOR, TOTAL	48	48	2,000	2,000	1,000	1,000
OFFICE OF THE SECRETARY	48	48	2,000	2,000	1,000	1,000
OTHER AGENCIES						
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,403	-	1,413	-	1,363	-
NATIONAL SCIENCE FOUNDATION	3,680	2,389	2,483	1,055	3,830	2,250

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-96. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978		ESTIMATES			
			1979		1980	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	45,300	15,189	44,999	19,890	54,659	20,300
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	4,541	3,476	3,940	3,064	4,300	3,415
SCIENCE & EDUCATION ADMINISTRATION	4,541	3,476	3,940	3,064	4,300	3,415
AGRICULTURAL RESEARCH	4,541	3,476	3,940	3,064	4,300	3,415
DEPARTMENT OF COMMERCE, TOTAL	232	-	157	-	167	-
NATIONAL BUREAU OF STANDARDS	182	-	157	-	70	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	50	-	-	-	97	-
DEPARTMENT OF DEFENSE, TOTAL	1,944	-	2,890	-	1,756	-
DEPARTMENT OF THE ARMY	269	-	1,175	-	276	-
DEPARTMENT OF THE NAVY	152	-	292	-	250	-
DEPARTMENT OF THE AIR FORCE	1,063	-	1,145	-	1,230	-
DEFENSE AGENCIES	460	-	278	-	-	-
DEPARTMENT OF ENERGY, TOTAL	1,407	-	587	-	1,448	-
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	23,971	9,860	29,878	13,921	30,239	14,465
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,132	-	621	-	786	-
CENTER FOR DISEASE CONTROL	2,763	1,932	3,746	3,640	3,646	3,510
FOOD & DRUG ADMINISTRATION	525	246	1,450	1,040	1,972	1,560
HEALTH SERVICES ADMINISTRATION	1,648	1,648	650	650	780	780
HUMAN DEVELOPMENT SERVICES	258	106	4,021	3,868	4,385	4,250
NATIONAL INSTITUTES OF HEALTH	16,914	5,462	18,697	4,030	18,075	3,770
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	531	466	693	693	595	595
OFFICE OF EDUCATION	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	10,822	-	3,599	-	13,302	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	10,800	-	3,551	-	13,272	-
DEPARTMENTAL FUNDS	22	-	48	-	30	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	1,082	910	2,311	2,205	1,845	1,720
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	205	-	202	-	202	-
NATIONAL SCIENCE FOUNDATION	943	943	700	700	700	700
NUCLEAR REGULATORY COMMISSION	108	-	735	-	700	-
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	45	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-97. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978		ESTIMATES			
			1979		1980	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	53,244	2,552	49,427	4,234	41,168	3,395
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	953	752	884	713	940	766
SCIENCE & EDUCATION ADMINISTRATION	953	752	884	713	940	766
AGRICULTURAL RESEARCH	953	752	884	713	940	766
DEPARTMENT OF COMMERCE, TOTAL	34	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	34	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,817	-	31,730	-	14,174	-
DEPARTMENT OF THE ARMY	3,913	-	9,046	-	1,060	-
DEPARTMENT OF THE NAVY	4,078	-	16,383	-	6,050	-
DEPARTMENT OF THE AIR FORCE	5,826	-	6,301	-	7,064	-
DEPARTMENT OF ENERGY, TOTAL	9,885	-	5,598	-	9,885	-
DEPARTMENT OF HEALTH, EDUCATION, & WELFARE, TOTAL	5,408	490	5,745	349	5,595	349
HEALTH RESOURCES ADMINISTRATION	490	490	349	349	349	349
HUMAN DEVELOPMENT SERVICES	68	-	69	-	64	-
NATIONAL INSTITUTE OF EDUCATION	114	-	150	-	200	-
NATIONAL INSTITUTES OF HEALTH	4,728	-	5,177	-	4,982	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	8	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	218	-	-	-	-	-
BUREAU OF MINES	218	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	19,030	-	1,219	-	7,184	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	19,030	-	1,219	-	7,184	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	1,556	1,310	3,466	3,172	2,655	2,280
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2,343	-	785	-	735	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-98. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL, ALL STATES	26,881,801	25,619,813	1,261,988
NEW ENGLAND	2,265,945	2,231,095	34,850
CONNECTICUT	302,110	299,778	2,332
MAINE	25,471	25,371	100
MASSACHUSETTS	1,722,032	1,693,305	28,727
NEW HAMPSHIRE	69,936	68,670	1,266
RHODE ISLAND	122,735	120,310	2,425
VERMONT	23,661	23,661	-
MIDDLE ATLANTIC	2,991,532	2,802,198	189,334
NEW JERSEY	619,165	522,450	96,715
NEW YORK	1,347,923	1,284,092	63,831
PENNSYLVANIA	1,024,444	995,656	28,788
EAST NORTH CENTRAL	2,119,083	2,010,350	108,733
ILLINOIS	637,157	564,280	72,877
INDIANA	108,490	108,075	415
MICHIGAN	369,716	367,828	1,888
OHIO	882,158	858,252	23,906
WISCONSIN	121,562	111,915	9,647
WEST NORTH CENTRAL	1,258,327	1,250,731	7,596
IOWA	70,619	68,303	2,316
KANSAS	106,791	106,598	193
MINNESOTA	178,878	177,662	1,216
MISSOURI	828,489	827,254	1,235
NEBRASKA	33,754	33,502	252
NORTH DAKOTA	30,580	28,322	2,258
SOUTH DAKOTA	9,216	9,090	126
SOUTH ATLANTIC	5,522,131	5,288,729	233,402
DELAWARE	11,078	11,057	21
DISTRICT OF COLUMBIA	803,401	792,268	11,133
FLORIDA	1,028,695	947,589	81,096
GEORGIA	157,492	155,701	1,791
MARYLAND	2,208,698	2,126,041	82,657
NORTH CAROLINA	195,817	192,342	3,475
SOUTH CAROLINA	125,234	118,292	6,942
VIRGINIA	901,403	872,129	29,274
WEST VIRGINIA	90,323	73,310	17,013
EAST SOUTH CENTRAL	1,332,989	1,277,123	55,866
ALABAMA	490,129	483,672	6,457
KENTUCKY	62,080	62,069	11
MISSISSIPPI	93,072	87,118	5,954
TENNESSEE	687,708	644,264	43,444
WEST SOUTH CENTRAL	1,423,604	1,388,968	34,636
ARKANSAS	43,320	42,396	924
LOUISIANA	183,528	162,676	20,852
OKLAHOMA	106,050	105,008	1,042
TEXAS	1,090,706	1,078,888	11,818
MOUNTAIN	2,288,046	2,077,893	210,153
ARIZONA	197,282	163,430	33,852
COLORADO	404,828	393,185	11,643
IDAHO	142,674	107,042	35,632
MONTANA	27,528	27,490	38
NEVADA	215,150	196,677	18,473
NEW MEXICO	1,089,066	987,411	101,655
UTAH	169,831	161,840	7,991
WYOMING	41,687	40,818	869
PACIFIC	7,589,949	7,208,094	381,855
ALASKA	49,444	48,701	743
CALIFORNIA	6,400,632	6,141,148	259,484
HAWAII	45,342	44,648	694
OREGON	97,883	95,279	2,604
WASHINGTON	996,648	878,318	118,330
OUTLYING AREAS	40,431	38,732	1,699
OFFICES ABROAD	49,764	45,900	3,864

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	25,619,813	6,633,992	11,783,524	1,166,064	3,340,111	1,303,813	828,024	305,564	258,721
CALIFORNIA	6,141,148	852,052	3,999,427	20,865	463,715	525,258	124,478	126,323	29,030
MARYLAND	2,126,041	1,331,003	564,508	31,456	174,289	595	18,897	51	5,202
MASSACHUSETTS	1,693,305	179,997	839,940	-	358,916	66,008	178,939	63,022	6,483
NEW YORK	1,284,092	123,208	439,290	153,210	337,972	106,155	87,585	-	36,672
TEXAS	1,078,888	221,889	643,153	-	171,742	-	31,169	-	10,935
PENNSYLVANIA	995,656	172,078	400,014	189,322	177,315	-	51,556	-	5,371
NEW MEXICO	987,411	216,106	169,211	299,597	31,293	258,418	10,092	-	2,694
FLORIDA	947,589	401,101	469,017	-	62,912	-	4,953	-	9,606
WASHINGTON	878,318	43,994	506,587	142,886	82,612	-	16,421	79,141	6,677
VIRGINIA	872,129	413,655	359,324	-	50,533	612	12,367	24,231	11,407
OHIO	858,252	449,860	264,244	11,545	90,931	-	35,070	-	6,602
MISSOURI	827,254	27,988	711,922	-	64,127	-	14,809	-	8,408
DISTRICT OF COLUMBIA	792,268	604,722	97,281	-	38,912	-	47,709	-	3,644
TENNESSEE	644,264	65,923	321,679	195,606	48,992	4,463	5,854	-	1,747
ILLINOIS	564,280	48,337	101,547	-	136,516	242,373	32,535	-	2,972
NEW JERSEY	522,450	181,738	251,229	-	41,538	37,326	4,763	-	5,856
ALABAMA	483,672	319,072	116,601	-	34,369	-	12,211	12	1,407
COLORADO	393,185	106,106	166,085	-	63,599	23,143	9,779	12,784	11,689
MICHIGAN	367,828	50,590	197,764	-	101,151	-	14,659	-	3,664
CONNECTICUT	299,778	14,641	206,065	-	70,793	-	3,795	-	4,484
NEVADA	196,677	34,782	153,140	-	3,551	-	3,676	-	1,528
NORTH CAROLINA	192,342	71,368	15,481	-	84,616	-	19,364	-	1,513
MINNESOTA	177,662	18,809	71,703	-	58,962	-	21,749	-	6,439
ARIZONA	163,430	44,898	75,703	-	30,379	9,126	1,441	-	1,883
LOUISIANA	162,676	29,984	101,523	-	24,062	-	1,762	-	5,345
UTAH	161,840	27,115	88,844	-	41,209	-	1,310	-	3,362
GEORGIA	155,701	54,173	47,164	-	46,064	-	4,865	-	3,435
RHODE ISLAND	120,310	77,482	15,871	-	19,570	-	3,869	-	3,518
SOUTH CAROLINA	118,292	12,475	32,568	56,408	14,260	-	509	-	2,072
WISCONSIN	111,915	15,983	12,575	-	80,833	-	1,406	-	1,118
INDIANA	108,075	24,453	27,699	-	53,269	-	1,360	-	1,294
IDAHO	107,042	18,243	13,840	65,169	4,977	-	528	-	4,285
KANSAS	106,598	4,529	77,907	-	21,991	-	931	-	1,240
OKLAHOMA	105,008	37,955	45,473	-	15,345	-	3,998	-	2,237
OREGON	95,279	32,143	5,986	-	39,661	-	12,811	-	4,778
MISSISSIPPI	87,118	54,488	17,310	-	13,896	-	279	-	1,145
WEST VIRGINIA	73,310	43,929	7,517	-	6,655	9,271	1,342	-	4,596
NEW HAMPSHIRE	68,670	9,962	45,270	-	12,178	-	758	-	502
IOWA	68,303	11,459	7,425	-	33,204	12,921	307	-	2,987
KENTUCKY	62,069	14,887	25,625	-	16,912	-	3,675	-	970
ALASKA	48,701	22,301	506	-	19,257	-	76	-	6,561
HAWAII	44,648	8,802	9,350	-	22,885	-	2,517	-	1,094
ARKANSAS	42,396	23,418	6,442	-	11,425	-	93	-	1,018
WYOMING	40,818	30,523	5,152	-	4,031	-	10	-	1,102
NEBRASKA	33,502	12,895	2,238	-	12,320	-	4,821	-	1,228
NORTH DAKOTA	28,322	15,562	6,468	-	5,005	-	-	-	1,287
MONTANA	27,490	16,698	1,210	-	4,977	-	210	-	4,395
MAINE	25,371	5,487	6,678	-	5,006	-	5,562	-	2,638
VERMONT	23,661	2,697	3,835	-	11,084	-	369	-	5,676
DELAWARE	11,057	907	1,885	-	6,940	-	917	-	408
SOUTH DAKOTA	9,090	2,097	141	-	3,806	-	508	-	2,538
OUTLYING AREAS	38,732	6,357	17,413	-	8,976	4,259	94	-	1,633
OFFICES ABROAD	45,900	23,071	8,754	-	578	3,885	9,266	-	346

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99a. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1978

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	24.0	12.8	33.9	1.8	13.9	40.3	15.0	41.3	11.2
MARYLAND	8.3	20.1	4.8	2.7	5.2	*	2.3	*	2.0
MASSACHUSETTS	6.6	2.7	7.1	-	10.7	5.1	21.6	20.6	2.5
NEW YORK	5.0	1.9	3.7	13.1	10.1	8.1	10.6	-	14.2
TEXAS	4.2	3.3	5.5	-	5.1	-	3.8	-	4.2
PENNSYLVANIA	3.9	2.6	3.4	16.2	5.3	-	6.2	-	2.1
NEW MEXICO	3.9	3.3	1.4	25.7	.9	19.8	1.2	-	1.0
FLORIDA	3.7	6.0	4.0	-	1.9	-	.6	-	3.7
WASHINGTON	3.4	.7	4.3	12.3	2.5	-	2.0	25.9	2.6
VIRGINIA	3.4	6.2	3.0	-	1.5	*	1.5	7.9	4.4
OHIO	3.3	6.8	2.2	1.0	2.7	-	4.2	-	2.6
MISSOURI	3.2	.4	6.0	-	1.9	-	1.8	-	3.2
DISTRICT OF COLUMBIA	3.1	9.1	.8	-	1.2	-	5.8	-	1.4
TENNESSEE	2.5	1.0	2.7	16.8	1.5	.3	.7	-	.7
ILLINOIS	2.2	.7	.9	-	4.1	18.6	3.9	-	1.1
NEW JERSEY	2.0	2.7	2.1	-	1.2	2.9	.6	-	2.3
ALABAMA	1.9	4.8	1.0	-	1.0	-	1.5	*	.5
COLORADO	1.5	1.6	1.4	-	1.9	1.8	1.2	4.2	4.5
MICHIGAN	1.4	.8	1.7	-	3.0	-	1.8	-	1.4
CONNECTICUT	1.2	.2	1.7	-	2.1	-	.5	-	1.7
NEVADA	.8	.5	1.3	-	.1	-	.4	-	.6
NORTH CAROLINA	.8	1.1	.1	-	2.5	-	2.3	-	.6
MINNESOTA	.7	.3	.6	-	1.8	-	2.6	-	2.5
ARIZONA	.6	.7	.6	-	.9	.7	.2	-	.7
LOUISIANA	.6	.5	.9	-	.7	-	.2	-	2.1
UTAH	.6	.4	.8	-	1.2	-	.2	-	1.3
GEORGIA	.6	.8	.4	-	1.4	-	.6	-	1.3
RHODE ISLAND	.5	1.2	.1	-	.6	-	.5	-	1.4
SOUTH CAROLINA	.5	.2	.3	4.8	.4	-	.1	-	.8
WISCONSIN	.4	.2	.1	-	2.4	-	.2	-	.4
INDIANA	.4	.4	.2	-	1.6	-	.2	-	.5
IDAHO	.4	.3	.1	5.6	.1	-	.1	-	1.7
KANSAS	.4	.1	.7	-	.7	-	.1	-	.5
OKLAHOMA	.4	.6	.4	-	.5	-	.5	-	.9
OREGON	.4	.5	*	-	1.2	-	1.5	-	1.8
MISSISSIPPI	.3	.8	.1	-	.4	-	*	-	.4
WEST VIRGINIA	.3	.7	.1	-	.2	.7	.2	-	1.8
NEW HAMPSHIRE	.3	.2	.4	-	.4	-	.1	-	.2
IOWA	.3	.2	.1	-	1.0	1.0	*	-	1.2
KENTUCKY	.2	.2	.2	-	.5	-	.4	-	.4
ALASKA	.2	.3	*	-	.6	-	*	-	2.5
HAWAII	.2	.1	.1	-	.7	-	.3	-	.4
ARKANSAS	.2	.4	.1	-	.3	-	*	-	.4
WYOMING	.2	.5	*	-	.1	-	*	-	.4
NEBRASKA	.1	.2	*	-	.4	-	.6	-	.5
NORTH DAKOTA	.1	.2	.1	-	.1	-	-	-	.5
MONTANA	.1	.3	*	-	.1	-	*	-	1.7
MAINE	.1	.1	.1	-	.1	-	.7	-	1.0
VERMONT	.1	*	*	-	.3	-	*	-	2.2
DELAWARE	*	*	*	-	.2	-	.1	-	.2
SOUTH DAKOTA	*	*	*	-	.1	-	.1	-	1.0
OUTLYING AREAS	.2	.1	.1	-	.3	.3	*	-	.6
OFFICES ABROAD	.2	.3	.1	-	*	.3	1.1	-	.1

* PERCENTAGE LESS THAN .05%.

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1978

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	100.0%	25.9%	46.0%	4.6%	13.0%	5.1%	3.2%	1.2%	1.0%
CALIFORNIA	100.0	13.9	65.1	.3	7.6	8.6	2.0	2.1	.5
MARYLAND	100.0	62.6	26.6	1.5	8.2	*	.9	*	.2
MASSACHUSETTS	100.0	10.6	49.6	-	21.2	3.9	10.6	3.7	.4
NEW YORK	100.0	9.6	34.2	11.9	26.3	8.3	6.8	-	2.9
TEXAS	100.0	20.6	59.6	-	15.9	-	2.9	-	1.0
PENNSYLVANIA	100.0	17.3	40.2	19.0	17.8	-	5.2	-	.5
NEW MEXICO	100.0	21.9	17.1	30.3	3.2	26.2	1.0	-	.3
FLORIDA	100.0	42.3	49.5	-	6.6	-	.5	-	1.0
WASHINGTON	100.0	5.0	57.7	16.3	9.4	-	1.9	9.0	.8
VIRGINIA	100.0	47.4	41.2	-	5.8	.1	1.4	2.8	1.3
OHIO	100.0	52.4	30.8	1.3	10.6	-	4.1	-	.8
MISSOURI	100.0	3.4	86.1	-	7.8	-	1.8	-	1.0
DISTRICT OF COLUMBIA	100.0	76.3	12.3	-	4.9	-	6.0	-	.5
TENNESSEE	100.0	10.2	49.9	30.4	7.6	.7	.9	-	.3
ILLINOIS	100.0	8.6	18.0	-	24.2	43.0	5.8	-	.5
NEW JERSEY	100.0	34.8	48.1	-	8.0	7.1	.9	-	1.1
ALABAMA	100.0	66.0	24.1	-	7.1	-	2.5	*	.3
COLORADO	100.0	27.0	42.2	-	16.2	5.9	2.5	3.3	3.0
MICHIGAN	100.0	13.8	53.8	-	27.5	-	4.0	-	1.0
CONNECTICUT	100.0	4.9	68.7	-	23.6	-	1.3	-	1.5
NEVADA	100.0	17.7	77.9	-	1.8	-	1.9	-	.8
NORTH CAROLINA	100.0	37.1	8.0	-	44.0	-	10.1	-	.8
MINNESOTA	100.0	10.6	40.4	-	33.2	-	12.2	-	3.6
ARIZONA	100.0	27.5	46.3	-	18.6	5.6	.9	-	1.2
LOUISIANA	100.0	18.4	62.4	-	14.8	-	1.1	-	3.3
UTAH	100.0	16.8	54.9	-	25.5	-	.8	-	2.1
GEORGIA	100.0	34.8	30.3	-	29.6	-	3.1	-	2.2
RHODE ISLAND	100.0	64.4	13.2	-	16.3	-	3.2	-	2.9
SOUTH CAROLINA	100.0	10.5	27.5	47.7	12.1	-	.4	-	1.8
WISCONSIN	100.0	14.3	11.2	-	72.2	-	1.3	-	1.0
INDIANA	100.0	22.6	25.6	-	49.3	-	1.3	-	1.2
IDAHO	100.0	17.0	12.9	60.9	4.6	-	.5	-	4.0
KANSAS	100.0	4.2	73.1	-	20.6	-	.9	-	1.2
OKLAHOMA	100.0	36.1	43.3	-	14.6	-	3.8	-	2.1
OREGON	100.0	33.7	6.2	-	41.6	-	13.4	-	5.0
MISSISSIPPI	100.0	62.5	19.9	-	16.0	-	.3	-	1.3
WEST VIRGINIA	100.0	59.9	10.3	-	9.1	12.6	1.8	-	6.3
NEW HAMPSHIRE	100.0	14.5	65.9	-	17.7	-	1.1	-	.7
IOWA	100.0	16.8	10.9	-	48.6	18.9	.4	-	4.4
KENTUCKY	100.0	24.0	41.3	-	27.2	-	5.9	-	1.6
ALASKA	100.0	45.8	1.0	-	39.5	-	.2	-	13.5
HAWAII	100.0	19.7	20.9	-	51.3	-	5.6	-	2.5
ARKANSAS	100.0	55.2	15.2	-	26.9	-	.2	-	2.4
WYOMING	100.0	74.8	12.6	-	9.9	-	*	-	2.7
NEBRASKA	100.0	38.5	6.7	-	36.8	-	14.4	-	3.7
NORTH DAKOTA	100.0	54.9	22.8	-	17.7	-	-	-	4.5
MONTANA	100.0	60.7	4.4	-	18.1	-	.8	-	16.0
MAINE	100.0	21.6	26.3	-	19.7	-	21.9	-	10.4
VERMONT	100.0	11.4	16.2	-	46.8	-	1.6	-	24.0
DELAWARE	100.0	8.2	17.0	-	62.8	-	8.3	-	3.7
SOUTH DAKOTA	100.0	23.1	1.6	-	41.9	-	5.6	-	27.9
OUTLYING AREAS	100.0	16.4	45.0	-	23.2	11.0	.2	-	4.2
OFFICES ABROAD	100.0	50.3	19.1	-	1.3	8.5	20.2	-	.8

* PERCENTAGE LESS THAN .05%.

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	25,619,813	612,535	283,399	11,530,997	4,233,520	3,168,530	384,969	408,250	381,998	3,871,463	744,152
CALIFORNIA	6,141,148	35,696	16,863	3,334,651	697,445	352,385	55,445	32,257	41,099	1,447,821	127,486
MARYLAND	2,126,041	58,189	74,287	786,446	65,896	655,642	12,691	50,453	25,397	382,577	14,463
MASSACHUSETTS	1,693,305	3,312	12,217	1,179,428	90,938	235,839	8,873	38,169	12,078	47,663	64,788
NEW YORK	1,284,092	17,995	7,903	514,095	260,739	327,327	7,667	17,471	11,578	51,723	67,599
TEXAS	1,078,888	24,028	6,617	389,109	41,588	115,212	9,159	33,329	22,126	419,501	18,219
PENNSYLVANIA	995,656	23,824	8,421	375,939	282,999	151,989	39,651	19,946	12,767	52,593	27,527
NEW MEXICO	987,411	3,967	3,685	281,192	650,569	14,529	4,361	1,716	339	24,547	2,506
FLORIDA	947,589	14,839	16,689	494,002	13,247	35,214	5,768	7,484	9,578	336,826	13,942
WASHINGTON	878,318	11,300	20,411	431,014	275,494	68,791	10,036	14,735	2,938	28,899	14,700
VIRGINIA	872,129	6,390	6,073	472,188	37,997	47,655	26,558	34,104	18,721	212,270	10,173
OHIO	858,252	9,765	888	438,952	109,185	78,808	5,383	7,608	42,232	152,272	13,159
MISSOURI	827,254	8,310	1,365	711,502	12,249	58,558	9,389	6,152	6,606	6,469	6,652
DISTRICT OF COLUMBIA	792,268	59,207	6,624	234,730	131,285	135,081	7,440	36,968	28,409	53,192	99,332
TENNESSEE	644,264	6,023	484	121,412	452,413	39,242	1,821	1,436	7,707	9,425	4,301
ILLINOIS	564,280	22,593	3,705	42,244	334,055	94,514	6,529	5,745	7,164	14,606	33,125
NEW JERSEY	522,450	3,164	14,119	353,862	47,431	29,622	4,911	15,304	7,154	35,248	11,635
ALABAMA	483,672	7,386	736	207,537	9,517	30,953	3,751	3,222	4,667	214,904	999
COLORADO	393,185	13,936	30,091	118,184	39,936	42,410	33,887	28,694	6,355	44,517	35,175
MICHIGAN	367,828	8,950	4,414	210,853	34,866	64,277	5,619	5,920	2,765	10,037	20,127
CONNECTICUT	299,778	4,118	2,717	127,156	21,826	58,360	988	6,502	1,685	66,854	9,572
NEVADA	196,677	1,749	294	20,041	156,298	813	8,503	76	6,400	1,269	1,234
NORTH CAROLINA	192,342	13,948	4,017	17,851	7,953	87,309	3,808	1,105	44,505	2,598	9,248
MINNESOTA	177,662	10,918	553	44,684	16,948	63,348	7,967	4,869	8,310	12,387	7,678
ARIZONA	163,430	10,087	313	78,166	15,361	15,920	5,673	6,247	860	13,775	17,028
LOUISIANA	162,676	25,991	2,476	6,018	1,856	17,950	1,468	2,598	2,611	99,731	1,977
UTAH	161,840	6,340	19	46,716	8,782	21,059	8,103	1,510	424	63,371	5,516
GEORGIA	155,701	23,398	3,780	51,220	8,588	45,370	2,667	674	10,342	3,307	6,355
RHODE ISLAND	120,310	854	1,760	90,082	3,130	9,286	634	427	4,278	1,005	8,854
SOUTH CAROLINA	118,292	8,145	2,379	5,020	88,431	8,519	2,150	440	920	162	2,126
WISCONSIN	111,915	18,622	1,981	4,499	10,522	53,059	4,259	509	1,613	3,637	13,214
INDIANA	108,075	6,633	1,726	43,087	8,223	23,307	1,872	811	1,382	4,939	16,095
IDAHO	107,042	7,514	292	1,087	88,984	1,115	4,861	2,469	115	231	582
KANSAS	106,598	5,456	543	78,392	663	14,972	1,951	523	75	1,499	2,524
OKLAHOMA	105,008	6,340	2,619	41,836	31,534	7,868	2,443	6,169	3,481	806	1,912
OREGON	95,279	14,890	2,550	4,416	9,999	30,549	10,423	2,668	8,663	1,822	9,299
MISSISSIPPI	87,118	18,657	5,481	33,999	1,365	6,166	2,537	1,480	194	16,799	440
WEST VIRGINIA	73,310	4,622	39	6,149	33,753	10,905	5,092	1,516	1,377	75	9,782
NEW HAMPSHIRE	68,670	2,553	1,273	52,044	978	6,307	1,274	169	152	2,348	1,572
IOWA	68,303	14,391	234	8,560	13,141	20,686	1,881	593	1,967	3,829	3,021
KENTUCKY	62,069	7,711	129	9,780	23,880	11,459	3,234	40	3,008	544	2,284
ALASKA	48,701	3,875	5,343	12,379	1,068	2,622	15,818	74	947	979	5,596
HAWAII	44,648	4,554	2,831	8,916	7,363	11,217	2,463	95	180	2,281	4,748
ARKANSAS	42,396	4,704	445	1,960	9,646	18,124	2,173	825	4,045	156	318
WYOMING	40,818	2,041	26	248	30,144	703	5,503	447	275	509	922
NEBRASKA	33,502	8,901	19	2,516	5,954	12,031	1,399	334	24	191	2,133
NORTH DAKOTA	28,322	11,292	77	1,450	11,324	850	2,987	27	-	-	315
MONTANA	27,490	10,440	35	362	649	5,249	8,631	715	895	26	488
MAINE	25,371	2,794	1,744	2,679	6,179	4,961	1,355	2,204	971	625	1,859
VERMONT	23,661	1,786	181	4,891	820	13,432	582	84	1,322	280	283
DELAWARE	11,057	1,785	736	1,380	1,367	2,009	643	294	226	316	2,299
SOUTH DAKOTA	9,090	3,085	405	15	1,286	1,070	1,651	957	41	234	346
OUTLYING AREAS	38,732	5,472	790	20,082	2,822	3,678	1,037	86	-	26	4,739
OFFICES ABROAD	45,900	-	-	5,976	14,834	209	-	-	1,028	19,968	3,885

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY, BY STATE: FISCAL YEAR 1978

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	24.0	5.8	6.0	28.9	16.5	11.1	14.4	7.9	10.8	37.4	17.1
MARYLAND	8.3	9.5	26.2	6.8	1.6	20.7	3.3	12.4	6.6	9.9	1.9
MASSACHUSETTS	6.6	.5	4.3	10.2	2.1	7.4	2.3	9.3	3.2	1.2	8.7
NEW YORK	5.0	2.9	2.8	4.5	6.2	10.3	2.0	4.3	3.0	1.3	9.1
TEXAS	4.2	3.9	2.3	3.4	1.0	3.6	2.4	8.2	5.8	10.8	2.4
PENNSYLVANIA	3.9	3.9	3.0	3.3	6.7	4.8	10.3	4.9	3.3	1.4	3.7
NEW MEXICO	3.9	.6	1.3	2.4	15.4	.5	1.1	.4	.1	.6	.3
FLORIDA	3.7	2.4	5.9	4.3	.3	1.1	1.5	1.8	2.5	8.7	1.9
WASHINGTON	3.4	1.8	7.2	3.7	6.5	2.2	2.6	3.6	.8	.7	2.0
VIRGINIA	3.4	1.0	2.1	4.1	.9	1.5	6.9	8.4	4.9	5.5	1.4
OHIO	3.3	1.6	.3	3.8	2.6	2.5	1.4	1.9	11.1	3.9	1.8
MISSOURI	3.2	1.4	.5	6.2	.3	1.8	2.4	1.5	1.7	.2	.9
DISTRICT OF COLUMBIA	3.1	9.7	2.3	2.0	3.1	4.3	1.9	9.1	7.4	1.4	13.3
TENNESSEE	2.5	1.0	.2	1.1	10.7	1.2	.5	.4	2.0	.2	.6
ILLINOIS	2.2	3.7	1.3	.4	7.9	3.0	1.7	1.4	1.9	.4	4.5
NEW JERSEY	2.0	.5	5.0	3.1	1.1	.9	1.3	3.7	1.9	.9	1.6
ALABAMA	1.9	1.2	.3	1.8	.2	1.0	1.0	.8	1.2	5.6	.1
COLORADO	1.5	2.3	10.6	1.0	.9	1.3	8.8	7.0	1.7	1.1	4.7
MICHIGAN	1.4	1.5	1.6	1.8	.8	2.0	1.5	1.5	.7	.3	2.7
CONNECTICUT	1.2	.7	1.0	1.1	.5	1.8	.3	1.6	.4	1.7	1.3
NEVADA	.8	.3	.1	.2	3.7	*	2.2	*	1.7	*	.2
NORTH CAROLINA	.8	2.3	1.4	.2	.2	2.8	1.0	.3	11.7	.1	1.2
MINNESOTA	.7	1.8	.2	.4	.4	2.0	2.1	1.2	2.2	.3	1.0
ARIZONA	.6	1.6	.1	.7	.4	.5	1.5	1.5	.2	.4	2.3
LOUISIANA	.6	4.2	.9	.1	*	.6	.4	.6	.7	2.6	.3
UTAH	.6	1.0	*	.4	.2	.7	2.1	.4	.1	1.6	.7
GEORGIA	.6	3.8	1.3	.4	.2	1.4	.7	.2	2.7	.1	.9
RHODE ISLAND	.5	.1	.6	.8	.1	.3	.2	.1	1.1	*	1.2
SOUTH CAROLINA	.5	1.3	.8	*	2.1	.3	.6	.1	.2	*	.3
WISCONSIN	.4	3.0	.7	*	.2	1.7	1.1	.1	.4	.1	1.8
INDIANA	.4	1.1	.6	.4	.2	.7	.5	.2	.4	.1	2.2
IDAHO	.4	1.2	.1	*	2.1	*	1.3	.6	*	*	.1
KANSAS	.4	.9	.2	.7	*	.5	.5	.1	*	*	.3
OKLAHOMA	.4	1.0	.9	.4	.7	.2	.6	1.5	.9	*	.3
OREGON	.4	2.4	.9	*	.2	1.0	2.7	.7	2.3	*	1.2
MISSISSIPPI	.3	3.0	1.9	.3	*	.2	.7	.4	.1	.4	.1
WEST VIRGINIA	.3	.8	*	.1	.8	.3	1.3	.4	.4	*	1.3
NEW HAMPSHIRE	.3	.4	.4	.5	*	.2	.3	*	*	.1	.2
IOWA	.3	2.3	.1	.1	.3	.7	.5	.1	.5	.1	.4
KENTUCKY	.2	1.3	*	.1	.6	.4	.8	*	.8	*	.3
ALASKA	.2	.6	1.9	.1	*	.1	4.1	*	.2	*	.8
HAWAII	.2	.7	1.0	.1	.2	.4	.6	*	*	.1	.6
ARKANSAS	.2	.8	.2	*	.2	.6	.6	.2	1.1	*	*
WYOMING	.2	.3	*	*	.7	*	1.4	.1	.1	*	.1
NEBRASKA	.1	1.5	*	*	.1	.4	.4	.1	*	*	.3
NORTH DAKOTA	.1	1.8	*	*	.3	*	.8	*	-	-	*
MONTANA	.1	1.7	*	*	*	.2	2.2	.2	.2	*	.1
MAINE	.1	.5	.6	*	.1	.2	.4	.5	.3	*	.2
VERMONT	.1	.3	.1	*	*	.4	.2	*	.3	*	*
DELAWARE	*	.3	.3	*	*	.1	.2	.1	.1	*	.3
SOUTH DAKOTA	*	.5	.1	*	*	*	.4	.2	*	*	*
OUTLYING AREAS	.2	.9	.3	.2	.1	.1	.3	*	-	*	.6
OFFICES ABROAD	.2	-	-	.1	.4	*	-	-	.3	.5	.5

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE, BY AGENCY: FISCAL YEAR 1978

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	100.0%	2.4%	1.1%	45.0%	16.5%	12.4%	1.5%	1.6%	1.5%	15.1%	2.9%
CALIFORNIA	100.0	.6	.3	54.3	11.4	5.7	.9	.5	.7	23.6	2.1
MARYLAND	100.0	2.7	3.5	37.0	3.1	30.8	.6	2.4	1.2	18.0	.7
MASSACHUSETTS	100.0	.2	.7	69.7	5.4	13.9	.5	2.3	.7	2.8	3.8
NEW YORK	100.0	1.4	.6	40.0	20.3	25.5	.6	1.4	.9	4.0	5.3
TEXAS	100.0	2.2	.6	36.1	3.9	10.7	.8	3.1	2.1	38.9	1.7
PENNSYLVANIA	100.0	2.4	.8	37.8	28.4	15.3	4.0	2.0	1.3	5.3	2.8
NEW MEXICO	100.0	.4	.4	28.5	65.9	1.5	.4	.2	*	2.5	.3
FLORIDA	100.0	1.6	1.8	52.1	1.4	3.7	.6	.8	1.0	35.5	1.5
WASHINGTON	100.0	1.3	2.3	49.1	31.4	7.8	1.1	1.7	.3	3.3	1.7
VIRGINIA	100.0	.7	.7	54.1	4.4	5.5	3.0	3.9	2.1	24.3	1.2
OHIO	100.0	1.1	.1	51.1	12.7	9.2	.6	.9	4.9	17.7	1.5
MISSOURI	100.0	1.0	.2	86.0	1.5	7.1	1.1	.7	.8	.8	.8
DISTRICT OF COLUMBIA	100.0	7.5	.8	29.6	16.6	17.0	.9	4.7	3.6	6.7	12.5
TENNESSEE	100.0	.9	.1	18.8	70.2	6.1	.3	.2	1.2	1.5	.7
ILLINOIS	100.0	4.0	.7	7.5	59.2	16.7	1.2	1.0	1.3	2.6	5.9
NEW JERSEY	100.0	.6	2.7	67.7	9.1	5.7	.9	2.9	1.4	6.7	2.2
ALABAMA	100.0	1.5	.2	42.9	2.0	6.4	.8	.7	1.0	44.4	.2
COLORADO	100.0	3.5	7.7	30.1	10.2	10.8	8.6	7.3	1.6	11.3	8.9
MICHIGAN	100.0	2.4	1.2	57.3	9.5	17.5	1.5	1.6	.8	2.7	5.5
CONNECTICUT	100.0	1.4	.9	42.4	7.3	19.5	.3	2.2	.6	22.3	3.2
NEVADA	100.0	.9	.1	10.2	79.5	.4	4.3	*	3.3	.6	.6
NORTH CAROLINA	100.0	7.3	2.1	9.3	4.1	45.4	2.0	.6	23.1	1.4	4.8
MINNESOTA	100.0	6.1	.3	25.2	9.5	35.7	4.5	2.7	4.7	7.0	4.3
ARIZONA	100.0	6.2	.2	47.8	9.4	9.7	3.5	3.8	.5	8.4	10.4
LOUISIANA	100.0	16.0	1.5	3.7	1.1	11.0	.9	1.6	1.6	61.3	1.2
UTAH	100.0	3.9	*	28.9	5.4	13.0	5.0	.9	.3	39.2	3.4
GEORGIA	100.0	15.0	2.4	32.9	5.5	29.1	1.7	.4	6.6	2.1	4.1
RHODE ISLAND	100.0	.7	1.5	74.9	2.6	7.7	.5	.4	3.6	.8	7.4
SOUTH CAROLINA	100.0	6.9	2.0	4.2	74.8	7.2	1.8	.4	.8	.1	1.8
WISCONSIN	100.0	16.6	1.8	4.0	9.4	47.4	3.8	.5	1.4	3.2	11.8
INDIANA	100.0	6.1	1.6	39.9	7.6	21.6	1.7	.8	1.3	4.6	14.9
IDAHO	100.0	7.0	.3	1.0	83.1	1.0	4.5	2.3	.1	*	.5
KANSAS	100.0	5.1	.5	73.5	.6	14.0	1.8	.5	.1	1.4	2.4
OKLAHOMA	100.0	6.0	2.5	39.8	30.0	7.5	2.3	5.9	3.3	.8	1.8
OREGON	100.0	15.6	2.7	4.6	10.5	32.1	10.9	2.8	9.1	1.9	9.8
MISSISSIPPI	100.0	21.4	6.3	39.0	1.6	7.1	2.9	1.7	.2	19.3	.5
WEST VIRGINIA	100.0	6.3	.1	8.4	46.0	14.9	6.9	2.1	1.9	.1	13.3
NEW HAMPSHIRE	100.0	3.7	1.9	75.8	1.4	9.2	1.9	.2	.2	3.4	2.3
IOWA	100.0	21.1	.3	12.5	19.2	30.3	2.8	.9	2.9	5.6	4.4
KENTUCKY	100.0	12.4	.2	15.8	38.5	18.5	5.2	.1	4.6	.9	3.7
ALASKA	100.0	8.0	11.0	25.4	2.2	5.4	32.5	.2	1.9	2.0	11.5
HAWAII	100.0	10.2	6.3	20.0	16.5	25.1	5.5	.2	.4	5.1	10.6
ARKANSAS	100.0	11.1	1.0	4.6	22.8	42.7	5.1	1.9	9.5	.4	.8
WYOMING	100.0	5.0	.1	.6	73.8	1.7	13.5	1.1	.7	1.2	2.3
NEBRASKA	100.0	26.6	.1	7.5	17.8	35.9	4.2	1.0	.1	.6	6.4
NORTH DAKOTA	100.0	39.9	.3	5.1	40.0	3.0	10.5	.1	-	-	1.1
MONTANA	100.0	38.0	.1	1.3	2.4	19.1	31.4	2.6	3.3	.1	1.8
MAINE	100.0	11.0	6.9	10.6	24.4	19.6	5.3	8.7	3.8	2.5	7.3
VERMONT	100.0	7.5	.8	20.7	3.5	56.8	2.5	.4	5.6	1.2	1.2
DELAWARE	100.0	16.1	6.7	12.5	12.4	18.2	5.8	2.7	2.0	2.9	20.8
SOUTH DAKOTA	100.0	33.9	4.5	.2	14.1	11.8	18.2	10.5	.5	2.6	3.8
OUTLYING AREAS	100.0	14.1	2.0	51.8	7.3	9.5	2.7	.2	-	.1	12.2
OFFICES ABROAD	100.0	-	-	13.0	32.3	.5	-	-	2.2	43.5	8.5

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES									
TOTAL	25,619,813	6,633,992	11,783,524	1,166,064	3,340,111	1,303,813	828,024	305,564	258,721
DEPARTMENT OF AGRICULTURE	612,535	417,781	7,074	-	186,370	-	268	-	1,042
DEPARTMENT OF COMMERCE	283,399	178,278	32,166	-	35,707	161	19,890	189	17,008
DEPARTMENT OF DEFENSE	11,530,997	3,284,838	7,346,030	99,012	405,162	85,035	123,221	186,518	1,181
DEPARTMENT OF ENERGY	4,233,520	317,675	1,415,716	1,033,729	240,074	1,064,822	48,070	102,512	10,922
DEPT OF HEALTH, EDUC AND WELFARE	3,168,530	685,856	143,308	31,456	1,702,293	8,312	501,113	1,888	94,304
DEPARTMENT OF THE INTERIOR	384,969	241,956	69,644	193	36,040	352	3,599	-	33,185
DEPARTMENT OF TRANSPORTATION	408,250	109,304	191,399	-	18,800	210	10,252	11,325	66,960
ENVIRONMENTAL PROTECTION AGENCY	381,998	159,299	103,249	-	48,321	-	40,893	1,381	28,855
NATIONAL AERONAUTICS AND SPACE ADMIN	3,871,463	1,155,650	2,452,846	-	130,176	91,447	39,500	881	963
NATIONAL SCIENCE FOUNDATION	744,152	83,355	22,092	1,674	537,168	53,474	41,218	870	4,301
NEW ENGLAND									
TOTAL	2,231,095	290,266	1,117,659	-	477,547	66,008	193,292	63,022	23,301
DEPARTMENT OF AGRICULTURE	15,417	6,533	42	-	8,181	-	15	-	646
DEPARTMENT OF COMMERCE	19,892	7,708	2,315	-	5,313	-	2,856	-	1,700
DEPARTMENT OF DEFENSE	1,456,280	230,127	915,961	-	131,185	62,087	57,802	59,118	-
DEPARTMENT OF ENERGY	123,871	4,239	62,665	-	46,908	3,497	3,622	2,934	6
DEPT OF HEALTH, EDUC AND WELFARE	328,185	1,346	21,947	-	183,731	-	107,809	121	13,231
DEPARTMENT OF THE INTERIOR	13,706	3,841	6,210	-	2,645	196	-	-	814
DEPARTMENT OF TRANSPORTATION	47,555	31,057	11,623	-	1,225	-	-	-	3,650
ENVIRONMENTAL PROTECTION AGENCY	20,486	3,253	10,089	-	3,151	-	729	849	2,415
NATIONAL AERONAUTICS AND SPACE ADMIN	118,775	2,162	83,666	-	17,649	-	15,298	-	-
NATIONAL SCIENCE FOUNDATION	86,928	-	3,141	-	77,559	228	5,161	-	839
CONNECTICUT									
TOTAL	299,778	14,641	206,065	-	70,793	-	3,795	-	4,484
DEPARTMENT OF AGRICULTURE	4,118	2,783	-	-	763	-	-	-	572
DEPARTMENT OF COMMERCE	2,717	1,593	121	-	83	-	348	-	572
DEPARTMENT OF DEFENSE	127,156	8,107	116,834	-	2,215	-	-	-	-
DEPARTMENT OF ENERGY	21,826	-	17,109	-	4,717	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	58,360	-	231	-	53,317	-	2,715	-	2,305
DEPARTMENT OF THE INTERIOR	988	567	166	-	188	-	-	-	67
DEPARTMENT OF TRANSPORTATION	6,502	1,473	4,260	-	14	-	-	-	755
ENVIRONMENTAL PROTECTION AGENCY	1,685	-	1,292	-	111	-	102	-	180
NATIONAL AERONAUTICS AND SPACE ADMIN	66,854	118	66,073	-	663	-	-	-	-
NATIONAL SCIENCE FOUNDATION	9,572	-	187	-	8,722	-	630	-	33
MAINE									
TOTAL	25,371	5,487	6,678	-	5,006	-	5,562	-	2,638
DEPARTMENT OF AGRICULTURE	2,794	1,230	-	-	1,490	-	-	-	74
DEPARTMENT OF COMMERCE	1,744	-	310	-	974	-	167	-	293
DEPARTMENT OF DEFENSE	2,679	268	2,289	-	117	-	5	-	-
DEPARTMENT OF ENERGY	6,179	3,169	2,610	-	400	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	4,961	-	-	-	578	-	4,222	-	161
DEPARTMENT OF THE INTERIOR	1,355	714	-	-	382	-	-	-	259
DEPARTMENT OF TRANSPORTATION	2,204	106	498	-	-	-	-	-	1,600
ENVIRONMENTAL PROTECTION AGENCY	971	-	449	-	22	-	310	-	190
NATIONAL AERONAUTICS AND SPACE ADMIN	625	-	522	-	-	-	103	-	-
NATIONAL SCIENCE FOUNDATION	1,859	-	-	-	1,043	-	755	-	61
MASSACHUSETTS									
TOTAL	1,693,305	179,997	839,940	-	358,916	66,008	178,939	63,022	6,483
DEPARTMENT OF AGRICULTURE	3,312	457	42	-	2,798	-	15	-	-
DEPARTMENT OF COMMERCE	12,217	5,977	1,873	-	2,663	-	1,126	-	578
DEPARTMENT OF DEFENSE	1,179,428	138,605	735,545	-	126,414	62,087	57,659	59,118	-
DEPARTMENT OF ENERGY	90,938	870	40,343	-	39,748	3,497	3,540	2,934	6
DEPT OF HEALTH, EDUC AND WELFARE	235,839	1,315	21,910	-	110,598	-	97,607	121	4,288
DEPARTMENT OF THE INTERIOR	8,873	1,531	5,764	-	1,382	196	-	-	-
DEPARTMENT OF TRANSPORTATION	38,169	29,388	6,816	-	1,109	-	-	-	856
ENVIRONMENTAL PROTECTION AGENCY	12,078	84	8,249	-	1,918	-	308	849	670
NATIONAL AERONAUTICS AND SPACE ADMIN	47,663	1,770	16,448	-	14,306	-	15,139	-	-
NATIONAL SCIENCE FOUNDATION	64,788	-	2,950	-	57,980	228	3,545	-	85
NEW HAMPSHIRE									
TOTAL	68,670	9,962	45,270	-	12,178	-	758	-	502
DEPARTMENT OF AGRICULTURE	2,553	1,438	-	-	1,115	-	-	-	-
DEPARTMENT OF COMMERCE	1,273	106	-	-	555	-	520	-	92
DEPARTMENT OF DEFENSE	52,044	7,383	44,258	-	289	-	114	-	-
DEPARTMENT OF ENERGY	978	200	500	-	278	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	6,307	-	-	-	5,975	-	124	-	208
DEPARTMENT OF THE INTERIOR	1,274	700	242	-	221	-	-	-	111
DEPARTMENT OF TRANSPORTATION	169	19	35	-	102	-	-	-	13
ENVIRONMENTAL PROTECTION AGENCY	152	-	99	-	-	-	-	-	53
NATIONAL AERONAUTICS AND SPACE ADMIN	2,348	116	136	-	2,096	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,572	-	-	-	1,547	-	-	-	25

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
RHODE ISLAND									
TOTAL	120,310	77,482	15,871	-1	19,570	-1	3,869	-1	3,518
DEPARTMENT OF AGRICULTURE	854	-1	-1	-1	854	-1	-1	-1	-
DEPARTMENT OF COMMERCE	1,760	-1	1	-1	1,038	-1	695	-1	26
DEPARTMENT OF DEFENSE	90,082	74,033	13,993	-1	2,032	-1	24	-1	-
DEPARTMENT OF ENERGY	3,130	-1	1,442	-1	1,606	-1	82	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	9,286	-1	61	-1	4,165	-1	2,772	-1	2,343
DEPARTMENT OF THE INTERIOR	634	126	-1	-1	357	-1	-1	-1	151
DEPARTMENT OF TRANSPORTATION	427	-1	14	-1	-1	-1	-1	-1	413
ENVIRONMENTAL PROTECTION AGENCY	4,278	3,169	-1	-1	1,100	-1	9	-1	-
NATIONAL AERONAUTICS AND SPACE ADMIN	1,005	154	411	-1	384	-1	56	-1	-
NATIONAL SCIENCE FOUNDATION	8,854	-1	4	-1	8,034	-1	231	-1	585
VERMONT									
TOTAL	23,661	2,697	3,835	-1	11,084	-1	369	-1	5,676
DEPARTMENT OF AGRICULTURE	1,786	625	-1	-1	1,161	-1	-1	-1	-
DEPARTMENT OF COMMERCE	181	-32	10	-1	-1	-1	-1	-1	139
DEPARTMENT OF DEFENSE	4,891	1,731	3,042	-1	118	-1	-1	-1	-
DEPARTMENT OF ENERGY	820	-1	661	-1	159	-1	-1	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	13,432	311	81	-1	9,098	-1	369	-1	3,926
DEPARTMENT OF THE INTERIOR	582	203	38	-1	115	-1	-1	-1	226
DEPARTMENT OF TRANSPORTATION	84	71	-1	-1	-1	-1	-1	-1	13
ENVIRONMENTAL PROTECTION AGENCY	1,322	-1	-1	-1	-1	-1	-1	-1	1,322
NATIONAL AERONAUTICS AND SPACE ADMIN	280	41	76	-1	200	-1	-1	-1	-
NATIONAL SCIENCE FOUNDATION	283	-1	-1	-1	233	-1	-1	-1	50
MIDDLE ATLANTIC									
TOTAL	2,802,198	477,024	1,090,533	342,532	556,825	143,481	143,904	-1	47,899
DEPARTMENT OF AGRICULTURE	44,978	24,291	5,766	-1	14,762	-1	154	-1	5
DEPARTMENT OF COMMERCE	30,443	13,080	3,981	-1	3,428	-1	4,776	-1	5,178
DEPARTMENT OF DEFENSE	1,243,896	361,846	719,716	97,567	45,440	11,824	7,428	-1	75
DEPARTMENT OF ENERGY	591,169	28,936	153,873	244,965	32,167	129,217	1,023	-1	988
DEPT OF HEALTH, EDUC AND WELFARE	508,938	4,129	16,423	-1	341,778	1,886	118,404	-1	26,318
DEPARTMENT OF THE INTERIOR	52,229	24,712	22,492	-1	3,246	-1	-1	-1	1,779
DEPARTMENT OF TRANSPORTATION	52,721	13,523	27,431	-1	3,481	-1	266	-1	8,020
ENVIRONMENTAL PROTECTION AGENCY	31,499	300	21,800	-1	3,740	-1	976	-1	4,683
NATIONAL AERONAUTICS AND SPACE ADMIN	139,564	6,207	117,714	-1	12,402	-1	2,941	-1	300
NATIONAL SCIENCE FOUNDATION	106,761	-1	1,337	-1	96,381	554	7,936	-1	553
NEW JERSEY									
TOTAL	522,450	181,738	251,229	-1	41,538	37,326	4,763	-1	5,856
DEPARTMENT OF AGRICULTURE	3,164	712	-1	-1	2,447	-1	-1	-1	5
DEPARTMENT OF COMMERCE	14,119	10,273	1,144	-1	1,439	-1	556	-1	707
DEPARTMENT OF DEFENSE	353,862	157,537	193,533	-1	2,738	-1	54	-1	-
DEPARTMENT OF ENERGY	47,431	861	6,349	-1	3,060	37,326	-1	-1	610
DEPT OF HEALTH, EDUC AND WELFARE	29,622	454	6,001	-1	18,465	-1	3,131	-1	1,571
DEPARTMENT OF THE INTERIOR	4,911	1,298	3,164	-1	320	-1	-1	-1	129
DEPARTMENT OF TRANSPORTATION	15,304	10,551	1,521	-1	506	-1	-1	-1	2,726
ENVIRONMENTAL PROTECTION AGENCY	7,154	-1	6,508	-1	380	-1	183	-1	83
NATIONAL AERONAUTICS AND SPACE ADMIN	35,248	827	32,551	-1	1,603	-1	267	-1	-
NATIONAL SCIENCE FOUNDATION	11,635	-1	458	-1	10,580	-1	572	-1	25
NEW YORK									
TOTAL	1,284,092	123,208	439,290	153,210	337,972	106,155	87,585	-1	36,672
DEPARTMENT OF AGRICULTURE	17,990	10,996	19	-1	6,837	-1	138	-1	-
DEPARTMENT OF COMMERCE	7,903	1,608	699	-1	1,834	-1	1,634	-1	2,128
DEPARTMENT OF DEFENSE	514,095	91,319	337,070	52,654	14,936	11,824	6,292	-1	-
DEPARTMENT OF ENERGY	260,739	5,436	42,614	100,556	18,865	91,891	999	-1	378
DEPT OF HEALTH, EDUC AND WELFARE	327,327	3,518	6,427	-1	222,859	1,886	69,727	-1	22,910
DEPARTMENT OF THE INTERIOR	7,667	3,916	1,011	-1	1,270	-1	-1	-1	1,570
DEPARTMENT OF TRANSPORTATION	17,471	1,423	10,265	-1	635	-1	266	-1	4,882
ENVIRONMENTAL PROTECTION AGENCY	11,578	145	4,335	-1	2,351	-1	579	-1	4,168
NATIONAL AERONAUTICS AND SPACE ADMIN	51,723	4,947	36,269	-1	7,783	-1	2,424	-1	300
NATIONAL SCIENCE FOUNDATION	67,599	-1	581	-1	60,602	554	5,526	-1	336
PENNSYLVANIA									
TOTAL	995,656	172,078	400,014	189,322	177,315	-1	51,556	-1	5,371
DEPARTMENT OF AGRICULTURE	23,824	12,583	5,747	-1	5,478	-1	16	-1	-
DEPARTMENT OF COMMERCE	8,421	1,199	2,138	-1	155	-1	2,586	-1	2,343
DEPARTMENT OF DEFENSE	375,939	112,990	189,113	44,913	27,766	-1	1,082	-1	75
DEPARTMENT OF ENERGY	282,999	23,414	104,910	144,409	10,242	-1	24	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	151,989	157	3,995	-1	100,454	-1	45,546	-1	1,837
DEPARTMENT OF THE INTERIOR	39,651	19,598	18,317	-1	1,656	-1	-1	-1	80
DEPARTMENT OF TRANSPORTATION	19,946	1,549	15,645	-1	2,340	-1	-1	-1	412
ENVIRONMENTAL PROTECTION AGENCY	12,767	155	10,957	-1	1,009	-1	214	-1	432
NATIONAL AERONAUTICS AND SPACE ADMIN	52,593	433	48,894	-1	3,016	-1	250	-1	-
NATIONAL SCIENCE FOUNDATION	27,527	-1	298	-1	25,199	-1	1,838	-1	192

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST NORTH CENTRAL									
TOTAL	2,010,350	589,223	603,829	11,545	462,700	242,373	85,030	-	15,650
DEPARTMENT OF AGRICULTURE	66,563	40,666	270	-	25,588	-	-	-	39
DEPARTMENT OF COMMERCE	12,714	2,980	1,764	-	2,821	-	4,270	-	879
DEPARTMENT OF DEFENSE	739,635	350,519	349,473	-	29,149	425	10,069	-	-
DEPARTMENT OF ENERGY	496,851	25,435	167,845	11,545	40,384	241,556	9,069	-	1,017
DEPT OF HEALTH, EDUC AND WELFARE	313,965	15,571	10,933	-	237,365	124	45,098	-	4,874
DEPARTMENT OF THE INTERIOR	23,662	11,316	6,889	-	2,823	96	67	-	2,471
DEPARTMENT OF TRANSPORTATION	20,593	3,365	8,021	-	3,718	-	1,727	-	3,762
ENVIRONMENTAL PROTECTION AGENCY	55,156	25,578	10,647	-	8,991	-	7,990	-	1,950
NATIONAL AERONAUTICS AND SPACE ADMIN	185,491	113,793	47,185	-	20,150	-	4,219	-	144
NATIONAL SCIENCE FOUNDATION	95,720	-	802	-	91,711	172	2,521	-	514
ILLINOIS									
TOTAL	564,280	48,337	101,547	-	136,516	242,373	32,535	-	2,972
DEPARTMENT OF AGRICULTURE	22,593	17,436	-	-	5,157	-	-	-	-
DEPARTMENT OF COMMERCE	3,705	90	32	-	102	-	3,462	-	19
DEPARTMENT OF DEFENSE	42,244	19,372	15,573	-	6,060	425	814	-	-
DEPARTMENT OF ENERGY	334,055	6,352	70,518	-	12,562	241,556	3,000	-	67
DEPT OF HEALTH, EDUC AND WELFARE	94,514	482	1,007	-	71,061	124	20,194	-	1,646
DEPARTMENT OF THE INTERIOR	6,529	2,161	3,155	-	756	96	18	-	343
DEPARTMENT OF TRANSPORTATION	5,745	238	2,464	-	729	-	1,635	-	679
ENVIRONMENTAL PROTECTION AGENCY	7,164	1,575	1,431	-	2,494	-	1,470	-	194
NATIONAL AERONAUTICS AND SPACE ADMIN	14,606	631	6,871	-	6,416	-	688	-	-
NATIONAL SCIENCE FOUNDATION	33,125	-	496	-	31,179	172	1,254	-	24
INDIANA									
TOTAL	108,075	24,453	27,699	-	53,269	-	1,360	-	1,294
DEPARTMENT OF AGRICULTURE	6,633	2,003	-	-	4,630	-	-	-	-
DEPARTMENT OF COMMERCE	1,726	-	1,274	-	27	-	-	-	425
DEPARTMENT OF DEFENSE	43,087	20,164	19,299	-	3,270	-	354	-	-
DEPARTMENT OF ENERGY	8,223	-	2,978	-	5,245	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	23,307	-	1,453	-	20,696	-	649	-	509
DEPARTMENT OF THE INTERIOR	1,872	798	760	-	205	-	-	-	109
DEPARTMENT OF TRANSPORTATION	811	424	96	-	179	-	-	-	112
ENVIRONMENTAL PROTECTION AGENCY	1,382	345	234	-	504	-	185	-	114
NATIONAL AERONAUTICS AND SPACE ADMIN	4,939	719	1,605	-	2,598	-	17	-	-
NATIONAL SCIENCE FOUNDATION	16,095	-	-	-	15,915	-	155	-	25
MICHIGAN									
TOTAL	367,828	50,590	197,764	-	101,151	-	14,659	-	3,664
DEPARTMENT OF AGRICULTURE	8,950	3,884	-	-	5,066	-	-	-	-
DEPARTMENT OF COMMERCE	4,414	2,814	131	-	852	-	451	-	166
DEPARTMENT OF DEFENSE	210,853	39,515	164,169	-	3,705	-	3,464	-	-
DEPARTMENT OF ENERGY	34,866	-	22,988	-	11,878	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	64,277	-	3,438	-	49,741	-	9,283	-	1,815
DEPARTMENT OF THE INTERIOR	5,619	3,635	-	-	688	-	-	-	1,296
DEPARTMENT OF TRANSPORTATION	5,920	437	3,656	-	1,650	-	-	-	177
ENVIRONMENTAL PROTECTION AGENCY	2,765	-	518	-	1,996	-	251	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	10,037	305	2,864	-	5,810	-	1,058	-	-
NATIONAL SCIENCE FOUNDATION	20,127	-	-	-	19,765	-	152	-	210
OHIO									
TOTAL	858,252	449,860	264,244	11,545	90,931	-	35,070	-	6,602
DEPARTMENT OF AGRICULTURE	9,765	4,345	-	-	5,381	-	-	-	39
DEPARTMENT OF COMMERCE	888	76	59	-	256	-	357	-	140
DEPARTMENT OF DEFENSE	438,952	271,406	148,795	-	13,314	-	5,437	-	-
DEPARTMENT OF ENERGY	109,185	19,083	66,125	11,545	5,413	-	6,069	-	950
DEPT OF HEALTH, EDUC AND WELFARE	78,808	15,089	2,525	-	47,285	-	13,573	-	336
DEPARTMENT OF THE INTERIOR	5,383	2,025	2,301	-	595	-	49	-	413
DEPARTMENT OF TRANSPORTATION	7,608	2,266	1,503	-	999	-	92	-	2,748
ENVIRONMENTAL PROTECTION AGENCY	42,232	23,658	7,754	-	3,094	-	6,084	-	1,642
NATIONAL AERONAUTICS AND SPACE ADMIN	152,272	111,912	35,115	-	2,645	-	2,456	-	144
NATIONAL SCIENCE FOUNDATION	13,159	-	67	-	11,949	-	953	-	190
WISCONSIN									
TOTAL	111,915	15,983	12,575	-	80,833	-	1,406	-	1,118
DEPARTMENT OF AGRICULTURE	18,622	12,998	270	-	5,354	-	-	-	-
DEPARTMENT OF COMMERCE	1,981	-	268	-	1,584	-	-	-	129
DEPARTMENT OF DEFENSE	4,499	62	1,637	-	2,800	-	-	-	-
DEPARTMENT OF ENERGY	10,522	-	5,236	-	5,286	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	53,059	-	2,510	-	48,582	-	1,399	-	568
DEPARTMENT OF THE INTERIOR	4,259	2,697	673	-	579	-	-	-	310
DEPARTMENT OF TRANSPORTATION	509	-	302	-	161	-	-	-	46
ENVIRONMENTAL PROTECTION AGENCY	1,613	-	710	-	903	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	3,637	226	730	-	2,681	-	-	-	-
NATIONAL SCIENCE FOUNDATION	13,214	-	239	-	12,903	-	7	-	65

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL					
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WEST NORTH CENTRAL									
TOTAL	1,250,731	93,339	877,804	-	199,415	12,921	43,125	-	24,127
DEPARTMENT OF AGRICULTURE	62,353	37,697	-	-	24,649	-	-	-	7
DEPARTMENT OF COMMERCE	3,196	181	128	-	914	-	865	-	1,108
DEPARTMENT OF DEFENSE	847,119	20,407	822,481	-	4,000	-	231	-	-
DEPARTMENT OF ENERGY	61,565	11,490	30,458	-	5,723	12,738	156	-	1,000
DEPT OF HEALTH, EDUC AND WELFARE	171,515	101	672	-	128,486	-	38,566	-	3,690
DEPARTMENT OF THE INTERIOR	27,225	16,362	3,861	-	2,938	-	170	-	3,894
DEPARTMENT OF TRANSPORTATION	13,455	197	2,306	-	287	-	363	-	10,302
ENVIRONMENTAL PROTECTION AGENCY	17,025	5,915	2,417	-	3,017	-	2,092	-	3,584
NATIONAL AERONAUTICS AND SPACE ADMIN	24,609	989	15,409	-	8,028	183	-	-	-
NATIONAL SCIENCE FOUNDATION	22,669	-	72	-	21,373	-	682	-	542
IOWA									
TOTAL	68,303	11,459	7,425	-	33,204	12,921	307	-	2,987
DEPARTMENT OF AGRICULTURE	14,391	9,919	-	-	4,472	-	-	-	-
DEPARTMENT OF COMMERCE	234	-	31	-	42	-	-	-	189
DEPARTMENT OF DEFENSE	8,560	709	6,987	-	864	-	-	-	-
DEPARTMENT OF ENERGY	13,141	-	101	-	393	12,738	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	20,686	-	151	-	19,961	-	307	-	403
DEPARTMENT OF THE INTERIOR	1,881	608	112	-	396	-	-	-	765
DEPARTMENT OF TRANSPORTATION	593	-	174	-	62	-	-	-	357
ENVIRONMENTAL PROTECTION AGENCY	1,967	215	-	-	479	-	-	-	1,273
NATIONAL AERONAUTICS AND SPACE ADMIN	3,829	8	124	-	3,514	183	-	-	-
NATIONAL SCIENCE FOUNDATION	3,021	-	-	-	3,021	-	-	-	-
KANSAS									
TOTAL	106,598	4,529	77,907	-	21,991	-	931	-	1,240
DEPARTMENT OF AGRICULTURE	5,456	2,623	-	-	2,833	-	-	-	-
DEPARTMENT OF COMMERCE	543	-	-	-	13	-	-	-	530
DEPARTMENT OF DEFENSE	78,392	881	76,540	-	936	-	35	-	-
DEPARTMENT OF ENERGY	663	-	-	-	663	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	14,972	-	160	-	13,763	-	796	-	253
DEPARTMENT OF THE INTERIOR	1,951	1,009	653	-	189	-	-	-	100
DEPARTMENT OF TRANSPORTATION	523	-	140	-	26	-	-	-	357
ENVIRONMENTAL PROTECTION AGENCY	75	-	-	-	75	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	1,499	16	414	-	1,069	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,524	-	-	-	2,424	-	100	-	-
MINNESOTA									
TOTAL	177,662	18,809	71,703	-	58,962	-	21,749	-	6,439
DEPARTMENT OF AGRICULTURE	10,918	6,164	-	-	4,754	-	-	-	-
DEPARTMENT OF COMMERCE	553	-	121	-	143	-	20	-	269
DEPARTMENT OF DEFENSE	44,684	77	43,711	-	806	-	90	-	-
DEPARTMENT OF ENERGY	16,948	-	14,095	-	2,853	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	63,348	61	477	-	39,729	-	21,550	-	1,586
DEPARTMENT OF THE INTERIOR	7,967	6,639	507	-	491	-	35	-	295
DEPARTMENT OF TRANSPORTATION	4,869	-	1,689	-	80	-	-	-	3,100
ENVIRONMENTAL PROTECTION AGENCY	8,310	5,619	548	-	1,296	-	-	-	847
NATIONAL AERONAUTICS AND SPACE ADMIN	12,387	304	10,508	-	1,575	-	-	-	-
NATIONAL SCIENCE FOUNDATION	7,678	-	47	-	7,235	-	54	-	342
MISSOURI									
TOTAL	827,254	27,988	711,922	-	64,127	-	14,809	-	8,408
DEPARTMENT OF AGRICULTURE	8,310	3,252	-	-	5,058	-	-	-	-
DEPARTMENT OF COMMERCE	1,365	181	4	-	643	-	498	-	39
DEPARTMENT OF DEFENSE	711,502	18,522	691,673	-	1,201	-	106	-	-
DEPARTMENT OF ENERGY	12,249	-	11,134	-	1,115	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	58,558	95	20	-	46,956	-	11,087	-	400
DEPARTMENT OF THE INTERIOR	9,389	5,023	2,589	-	424	-	135	-	1,218
DEPARTMENT OF TRANSPORTATION	6,152	197	296	-	59	-	363	-	5,237
ENVIRONMENTAL PROTECTION AGENCY	6,608	81	1,869	-	1,102	-	2,092	-	1,464
NATIONAL AERONAUTICS AND SPACE ADMIN	6,469	637	4,312	-	1,520	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,652	-	25	-	6,049	-	528	-	50
NEBRASKA									
TOTAL	33,502	12,895	2,238	-	12,320	-	4,821	-	1,228
DEPARTMENT OF AGRICULTURE	8,901	6,501	-	-	2,400	-	-	-	-
DEPARTMENT OF COMMERCE	19	-	-	-	-	-	-	-	19
DEPARTMENT OF DEFENSE	2,516	216	2,120	-	180	-	-	-	-
DEPARTMENT OF ENERGY	5,954	5,492	60	-	402	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	12,031	-	-	-	6,811	-	4,821	-	399
DEPARTMENT OF THE INTERIOR	1,399	666	-	-	300	-	-	-	433
DEPARTMENT OF TRANSPORTATION	334	-	7	-	-	-	-	-	327
ENVIRONMENTAL PROTECTION AGENCY	24	-	-	-	24	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	191	20	51	-	120	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,133	-	-	-	2,083	-	-	-	50

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
NORTH DAKOTA									
TOTAL	28,322	15,562	6,468	-	5,005	-	-	-	1,287
DEPARTMENT OF AGRICULTURE	11,292	7,839	-	-	3,453	-	-	-	-
DEPARTMENT OF COMMERCE	77	-	-	-	34	-	-	-	43
DEPARTMENT OF DEFENSE	1,450	-	1,450	-	-	-	-	-	-
DEPARTMENT OF ENERGY	11,324	5,923	5,018	-	100	-	-	-	283
DEPT OF HEALTH, EDUC AND WELFARE	850	-	-	-	510	-	-	-	340
DEPARTMENT OF THE INTERIOR	2,987	1,800	-	-	643	-	-	-	544
DEPARTMENT OF TRANSPORTATION	27	-	-	-	-	-	-	-	27
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	-	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	315	-	-	-	265	-	-	-	50
SOUTH DAKOTA									
TOTAL	9,090	2,097	141	-	3,806	-	508	-	2,538
DEPARTMENT OF AGRICULTURE	3,085	1,399	-	-	1,679	-	-	-	7
DEPARTMENT OF COMMERCE	405	-	-	-	39	-	347	-	19
DEPARTMENT OF DEFENSE	15	2	-	-	13	-	-	-	-
DEPARTMENT OF ENERGY	1,286	75	141	-	197	-	156	-	717
DEPT OF HEALTH, EDUC AND WELFARE	1,070	-	-	-	756	-	5	-	309
DEPARTMENT OF THE INTERIOR	1,651	617	-	-	495	-	-	-	539
DEPARTMENT OF TRANSPORTATION	957	-	-	-	60	-	-	-	897
ENVIRONMENTAL PROTECTION AGENCY	41	-	-	-	41	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	234	4	-	-	230	-	-	-	-
NATIONAL SCIENCE FOUNDATION	346	-	-	-	296	-	-	-	50
SOUTH ATLANTIC									
TOTAL	5,288,729	2,933,333	1,594,785	87,864	485,181	10,478	110,923	24,282	41,883
DEPARTMENT OF AGRICULTURE	190,523	155,628	115	-	34,675	-	5	-	100
DEPARTMENT OF COMMERCE	114,624	93,163	8,146	-	6,412	-	4,205	189	2,509
DEPARTMENT OF DEFENSE	2,068,986	1,102,834	841,066	-	96,885	385	15,608	12,114	94
DEPARTMENT OF ENERGY	388,517	162,991	140,001	56,408	25,578	-	3,289	-	250
DEPT OF HEALTH, EDUC AND WELFARE	1,027,704	626,886	77,772	31,456	233,311	-	48,633	323	9,323
DEPARTMENT OF THE INTERIOR	66,817	52,662	4,904	-	4,131	-	792	-	4,328
DEPARTMENT OF TRANSPORTATION	133,038	32,760	70,067	-	2,364	210	1,884	11,325	14,428
ENVIRONMENTAL PROTECTION AGENCY	139,475	94,864	13,187	-	10,468	-	10,770	-	10,186
NATIONAL AERONAUTICS AND SPACE ADMIN	991,325	528,936	435,665	-	15,796	-	10,701	-	227
NATIONAL SCIENCE FOUNDATION	167,720	82,609	3,862	-	55,561	9,883	15,036	331	438
DELAWARE									
TOTAL	11,057	907	1,885	-	6,940	-	917	-	408
DEPARTMENT OF AGRICULTURE	1,785	585	-	-	1,200	-	-	-	-
DEPARTMENT OF COMMERCE	736	8	3	-	698	-	-	-	27
DEPARTMENT OF DEFENSE	1,380	25	850	-	505	-	-	-	-
DEPARTMENT OF ENERGY	1,367	59	542	-	721	-	-	-	45
DEPT OF HEALTH, EDUC AND WELFARE	2,009	-	11	-	980	-	810	-	218
DEPARTMENT OF THE INTERIOR	643	222	118	-	235	-	-	-	68
DEPARTMENT OF TRANSPORTATION	296	-	294	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	226	-	29	-	98	-	99	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	318	8	48	-	262	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,299	-	-	-	2,241	-	8	-	50
DISTRICT OF COLUMBIA									
TOTAL	792,268	604,722	97,281	-	38,912	-	47,709	-	3,644
DEPARTMENT OF AGRICULTURE	59,207	57,908	11	-	1,288	-	-	-	-
DEPARTMENT OF COMMERCE	6,624	3,173	1,478	-	977	-	909	-	87
DEPARTMENT OF DEFENSE	234,730	182,298	45,937	-	4,070	-	2,425	-	-
DEPARTMENT OF ENERGY	131,285	105,863	20,936	-	4,104	-	382	-	-
DEPT OF HEALTH, EDUC AND WELFARE	135,081	79,648	13,967	-	22,235	-	18,999	-	232
DEPARTMENT OF THE INTERIOR	7,440	6,175	571	-	376	-	318	-	-
DEPARTMENT OF TRANSPORTATION	36,968	23,139	9,194	-	134	-	1,229	-	3,272
ENVIRONMENTAL PROTECTION AGENCY	28,409	26,192	175	-	326	-	1,663	-	53
NATIONAL AERONAUTICS AND SPACE ADMIN	53,192	39,539	3,347	-	2,482	-	7,829	-	-
NATIONAL SCIENCE FOUNDATION	99,332	80,792	1,665	-	2,920	-	13,955	-	-
FLORIDA									
TOTAL	947,589	401,101	469,017	-	62,912	-	4,953	-	9,606
DEPARTMENT OF AGRICULTURE	14,839	10,481	-	-	4,358	-	-	-	-
DEPARTMENT OF COMMERCE	16,689	13,410	262	-	2,050	-	610	-	357
DEPARTMENT OF DEFENSE	496,002	219,586	268,960	-	5,456	-	-	-	-
DEPARTMENT OF ENERGY	13,247	150	8,559	-	3,915	-	623	-	-
DEPT OF HEALTH, EDUC AND WELFARE	35,214	111	1,817	-	28,281	-	3,404	-	1,601
DEPARTMENT OF THE INTERIOR	5,768	4,768	207	-	603	-	30	-	160
DEPARTMENT OF TRANSPORTATION	7,484	543	74	-	446	-	-	-	6,421
ENVIRONMENTAL PROTECTION AGENCY	9,578	3,336	2,490	-	2,340	-	9	-	903
NATIONAL AERONAUTICS AND SPACE ADMIN	336,826	148,200	186,484	-	2,001	-	141	-	-
NATIONAL SCIENCE FOUNDATION	13,942	16	164	-	13,462	-	136	-	164

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
GEORGIA									
TOTAL	155,701	54,173	47,164	-1	46,064	-1	4,865	-1	3,435
DEPARTMENT OF AGRICULTURE	23,398	18,108	20	-1	5,270	-1	-1	-1	-
DEPARTMENT OF COMMERCE	3,780	412	45	-1	770	-1	1,617	-1	936
DEPARTMENT OF DEFENSE	51,220	4,237	42,195	-1	3,926	-1	862	-1	-
DEPARTMENT OF ENERGY	8,588	689	2,675	-1	5,224	-1	-1	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	45,370	19,020	143	-1	21,988	-1	2,285	-1	1,934
DEPARTMENT OF THE INTERIOR	2,667	1,727	14	-1	482	-1	-1	-1	444
DEPARTMENT OF TRANSPORTATION	674	-1	340	-1	238	-1	-1	-1	96
ENVIRONMENTAL PROTECTION AGENCY	10,342	9,535	235	-1	471	-1	101	-1	-
NATIONAL AERONAUTICS AND SPACE ADMIN	3,307	445	1,497	-1	1,365	-1	-1	-1	-
NATIONAL SCIENCE FOUNDATION	6,355	-1	-1	-1	6,330	-1	-1	-1	25
MARYLAND									
TOTAL	2,126,041	1,331,003	564,548	31,456	174,289	595	18,897	51	5,202
DEPARTMENT OF AGRICULTURE	58,189	54,128	67	-1	3,994	-1	-1	-1	-
DEPARTMENT OF COMMERCE	74,287	70,061	3,064	-1	742	-1	158	-1	262
DEPARTMENT OF DEFENSE	786,446	476,738	225,117	-1	77,217	385	6,938	51	-
DEPARTMENT OF ENERGY	65,896	19,423	38,944	-1	5,324	-1	2,065	-1	140
DEPT OF HEALTH, EDUC AND WELFARE	655,642	504,099	42,317	31,456	67,673	-1	8,706	-1	1,391
DEPARTMENT OF THE INTERIOR	12,691	9,518	1,673	-1	225	-1	-1	-1	1,275
DEPARTMENT OF TRANSPORTATION	50,453	5,298	44,633	-1	222	210	-1	-1	90
ENVIRONMENTAL PROTECTION AGENCY	25,397	15,475	5,208	-1	2,539	-1	393	-1	1,782
NATIONAL AERONAUTICS AND SPACE ADMIN	382,577	175,971	202,005	-1	4,119	-1	255	-1	227
NATIONAL SCIENCE FOUNDATION	14,463	292	1,520	-1	12,234	-1	382	-1	35
NORTH CAROLINA									
TOTAL	192,342	71,368	15,481	-1	84,616	-1	19,364	-1	1,513
DEPARTMENT OF AGRICULTURE	13,948	6,714	17	-1	7,217	-1	-1	-1	-
DEPARTMENT OF COMMERCE	4,017	2,470	91	-1	863	-1	501	-1	92
DEPARTMENT OF DEFENSE	17,851	6,749	6,319	-1	2,908	-1	1,781	-1	94
DEPARTMENT OF ENERGY	7,953	603	5,192	-1	2,158	-1	-1	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	87,309	16,609	1,629	-1	57,783	-1	10,143	-1	1,145
DEPARTMENT OF THE INTERIOR	3,808	3,428	27	-1	261	-1	-1	-1	92
DEPARTMENT OF TRANSPORTATION	1,105	353	215	-1	537	-1	-1	-1	-
ENVIRONMENTAL PROTECTION AGENCY	44,505	34,109	1,406	-1	3,245	-1	5,744	-1	1
NATIONAL AERONAUTICS AND SPACE ADMIN	2,598	333	585	-1	709	-1	971	-1	-
NATIONAL SCIENCE FOUNDATION	9,248	-1	-1	-1	8,935	-1	224	-1	89
SOUTH CAROLINA									
TOTAL	118,292	12,475	32,568	56,408	14,260	-1	509	-1	2,072
DEPARTMENT OF AGRICULTURE	8,145	4,459	-1	-1	3,686	-1	-1	-1	-
DEPARTMENT OF COMMERCE	2,379	1,839	-1	-1	12	-1	275	-1	253
DEPARTMENT OF DEFENSE	5,020	4,450	332	-1	238	-1	-1	-1	-
DEPARTMENT OF ENERGY	88,431	125	31,834	56,408	64	-1	-1	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	8,519	14	12	-1	7,141	-1	91	-1	1,261
DEPARTMENT OF THE INTERIOR	2,150	1,569	-1	-1	331	-1	31	-1	219
DEPARTMENT OF TRANSPORTATION	440	-1	-1	-1	167	-1	112	-1	161
ENVIRONMENTAL PROTECTION AGENCY	920	-1	390	-1	377	-1	-1	-1	153
NATIONAL AERONAUTICS AND SPACE ADMIN	162	19	-1	-1	143	-1	-1	-1	-
NATIONAL SCIENCE FOUNDATION	2,126	-1	-1	-1	2,101	-1	-1	-1	25
VIRGINIA									
TOTAL	872,129	413,655	359,324	-1	50,533	612	12,367	24,231	11,407
DEPARTMENT OF AGRICULTURE	6,390	573	-1	-1	5,712	-1	5	-1	100
DEPARTMENT OF COMMERCE	6,073	1,790	3,203	-1	300	-1	135	189	456
DEPARTMENT OF DEFENSE	472,188	208,751	245,265	-1	2,507	-1	3,602	12,063	-
DEPARTMENT OF ENERGY	37,997	3,781	30,712	-1	3,285	-1	219	-1	-
DEPT OF HEALTH, EDUC AND WELFARE	47,655	711	17,886	-1	25,342	-1	2,878	323	515
DEPARTMENT OF THE INTERIOR	26,558	22,978	1,625	-1	459	-1	413	-1	1,083
DEPARTMENT OF TRANSPORTATION	34,104	3,427	15,317	-1	399	-1	543	11,325	3,093
ENVIRONMENTAL PROTECTION AGENCY	18,721	5,717	3,171	-1	937	-1	2,736	-1	6,160
NATIONAL AERONAUTICS AND SPACE ADMIN	212,270	164,418	41,632	-1	4,715	-1	1,505	-1	-
NATIONAL SCIENCE FOUNDATION	10,173	1,509	513	-1	6,877	612	331	331	-
WEST VIRGINIA									
TOTAL	73,310	43,929	7,517	-1	6,655	9,271	1,342	-1	4,596
DEPARTMENT OF AGRICULTURE	4,622	2,672	-1	-1	1,950	-1	-1	-1	-
DEPARTMENT OF COMMERCE	39	-1	-1	-1	-1	-1	-1	-1	39
DEPARTMENT OF DEFENSE	6,149	-1	6,091	-1	58	-1	-1	-1	-
DEPARTMENT OF ENERGY	33,753	32,298	607	-1	783	-1	-1	-1	65
DEPT OF HEALTH, EDUC AND WELFARE	10,905	6,674	-1	-1	1,888	-1	1,317	-1	1,026
DEPARTMENT OF THE INTERIOR	5,092	2,277	669	-1	1,159	-1	-1	-1	987
DEPARTMENT OF TRANSPORTATION	1,516	-1	-1	-1	221	-1	-1	-1	1,295
ENVIRONMENTAL PROTECTION AGENCY	1,377	-1	83	-1	135	-1	25	-1	1,134
NATIONAL AERONAUTICS AND SPACE ADMIN	75	81	67	-1	-1	-1	-1	-1	-
NATIONAL SCIENCE FOUNDATION	9,782	-1	-1	-1	461	9,271	-1	-1	50

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
EAST SOUTH CENTRAL									
TOTAL	1,277,123	454,370	481,215	195,606	114,169	4,463	22,019	12	5,269
DEPARTMENT OF AGRICULTURE	39,777	19,004	-	-	20,773	-	-	-	-
DEPARTMENT OF COMMERCE	6,830	2,988	2,431	-	958	-	173	-	280
DEPARTMENT OF DEFENSE	372,728	231,033	136,745	110	2,861	-	1,766	12	201
DEPARTMENT OF ENERGY	487,175	5,913	270,639	193,629	11,765	3,792	1,437	-	-
DEPT OF HEALTH, EDUC AND WELFARE	87,820	6,362	190	-	66,926	611	12,267	-	1,464
DEPARTMENT OF THE INTERIOR	11,343	7,615	1,084	193	771	60	679	-	941
DEPARTMENT OF TRANSPORTATION	6,178	2,842	997	-	391	-	-	-	1,948
ENVIRONMENTAL PROTECTION AGENCY	15,576	7,160	2,582	-	1,123	-	4,426	-	285
NATIONAL AERONAUTICS AND SPACE ADMIN	241,672	171,423	66,537	-	3,234	-	478	-	-
NATIONAL SCIENCE FOUNDATION	8,024	30	10	1,674	5,367	-	793	-	150
ALABAMA									
TOTAL	483,672	319,072	116,601	-	34,369	-	12,211	12	1,407
DEPARTMENT OF AGRICULTURE	7,386	2,247	-	-	5,139	-	-	-	-
DEPARTMENT OF COMMERCE	736	-	263	-	194	-	173	-	106
DEPARTMENT OF DEFENSE	207,537	145,332	59,248	-	1,094	-	1,650	12	201
DEPARTMENT OF ENERGY	9,517	3,350	5,032	-	1,135	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	30,953	67	150	-	23,853	-	6,194	-	689
DEPARTMENT OF THE INTERIOR	3,751	2,692	811	-	163	-	-	-	85
DEPARTMENT OF TRANSPORTATION	3,222	1,982	805	-	134	-	-	-	301
ENVIRONMENTAL PROTECTION AGENCY	4,667	458	134	-	333	-	3,742	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	214,904	162,944	50,158	-	1,350	-	452	-	-
NATIONAL SCIENCE FOUNDATION	999	-	-	-	974	-	-	-	25
KENTUCKY									
TOTAL	62,069	14,887	25,625	-	16,912	-	3,675	-	970
DEPARTMENT OF AGRICULTURE	7,711	1,735	-	-	5,976	-	-	-	-
DEPARTMENT OF COMMERCE	129	-	-	-	110	-	-	-	19
DEPARTMENT OF DEFENSE	9,780	8,549	787	-	378	-	66	-	-
DEPARTMENT OF ENERGY	23,880	-	22,796	-	84	-	1,000	-	-
DEPT OF HEALTH, EDUC AND WELFARE	11,459	2,897	-	-	7,785	-	516	-	261
DEPARTMENT OF THE INTERIOR	3,234	1,646	273	-	261	-	679	-	375
DEPARTMENT OF TRANSPORTATION	40	-	-	-	-	-	-	-	40
ENVIRONMENTAL PROTECTION AGENCY	3,008	-	1,752	-	347	-	684	-	225
NATIONAL AERONAUTICS AND SPACE ADMIN	544	60	17	-	467	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,284	-	-	-	1,504	-	730	-	50
MISSISSIPPI									
TOTAL	87,118	54,488	17,310	-	13,896	-	279	-	1,145
DEPARTMENT OF AGRICULTURE	18,657	13,615	-	-	5,042	-	-	-	-
DEPARTMENT OF COMMERCE	5,481	2,868	2,138	-	339	-	-	-	136
DEPARTMENT OF DEFENSE	33,999	32,602	1,142	-	255	-	-	-	-
DEPARTMENT OF ENERGY	1,365	-	200	-	1,165	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	6,166	-	401	-	5,728	-	249	-	149
DEPARTMENT OF THE INTERIOR	2,537	2,129	-	-	193	-	-	-	215
DEPARTMENT OF TRANSPORTATION	1,480	860	-	-	-	-	-	-	620
ENVIRONMENTAL PROTECTION AGENCY	194	-	-	-	194	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	16,799	2,414	13,780	-	579	-	26	-	-
NATIONAL SCIENCE FOUNDATION	440	-	10	-	401	-	4	-	25
TENNESSEE									
TOTAL	644,264	65,923	321,679	195,606	48,992	4,463	5,854	-	1,747
DEPARTMENT OF AGRICULTURE	6,023	1,407	-	-	4,616	-	-	-	-
DEPARTMENT OF COMMERCE	484	120	30	-	315	-	-	-	19
DEPARTMENT OF DEFENSE	121,412	44,550	75,568	110	1,134	-	50	-	-
DEPARTMENT OF ENERGY	452,413	2,563	242,611	193,629	9,381	3,792	437	-	-
DEPT OF HEALTH, EDUC AND WELFARE	39,242	3,398	-	-	29,560	611	5,308	-	365
DEPARTMENT OF THE INTERIOR	1,821	1,148	-	193	154	60	-	-	266
DEPARTMENT OF TRANSPORTATION	1,436	-	192	-	257	-	-	-	987
ENVIRONMENTAL PROTECTION AGENCY	7,707	6,702	696	-	249	-	-	-	60
NATIONAL AERONAUTICS AND SPACE ADMIN	9,425	6,005	2,582	-	838	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,301	30	-	1,674	2,488	-	59	-	50
WEST SOUTH CENTRAL									
TOTAL	1,388,968	313,246	796,591	-	222,574	-	37,022	-	19,535
DEPARTMENT OF AGRICULTURE	61,063	42,127	148	-	18,786	-	-	-	2
DEPARTMENT OF COMMERCE	12,157	4,127	2,987	-	3,460	-	597	-	986
DEPARTMENT OF DEFENSE	438,923	36,373	387,309	-	13,196	-	1,910	-	135
DEPARTMENT OF ENERGY	84,624	28,607	33,290	-	19,539	-	2,848	-	340
DEPT OF HEALTH, EDUC AND WELFARE	159,154	17,124	1,224	-	125,168	-	11,800	-	3,838
DEPARTMENT OF THE INTERIOR	15,243	7,364	1,479	-	1,502	-	1,663	-	3,235
DEPARTMENT OF TRANSPORTATION	42,921	1,581	22,178	-	4,873	-	5,732	-	8,557
ENVIRONMENTAL PROTECTION AGENCY	32,263	7,235	7,900	-	3,858	-	11,153	-	2,117
NATIONAL AERONAUTICS AND SPACE ADMIN	520,194	168,708	340,076	-	10,076	-	1,102	-	232
NATIONAL SCIENCE FOUNDATION	22,426	-	-	-	22,116	-	217	-	93

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL (1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
ARKANSAS									
TOTAL	42,396	23,418	6,442	-	11,425	-	93	-	1,018
DEPARTMENT OF AGRICULTURE	4,704	856	54	-	3,794	-	-	-	-
DEPARTMENT OF COMMERCE	445	-	16	-	398	-	-	-	31
DEPARTMENT OF DEFENSE	1,960	1,045	452	-	463	-	-	-	-
DEPARTMENT OF ENERGY	9,646	-	5,675	-	3,971	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	18,124	15,778	-	-	1,939	-	91	-	316
DEPARTMENT OF THE INTERIOR	2,173	1,922	27	-	200	-	2	-	22
DEPARTMENT OF TRANSPORTATION	825	-	215	-	54	-	-	-	556
ENVIRONMENTAL PROTECTION AGENCY	4,045	3,781	-	-	264	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	156	36	3	-	117	-	-	-	-
NATIONAL SCIENCE FOUNDATION	318	-	-	-	225	-	-	-	93
LOUISIANA									
TOTAL	162,676	29,984	101,523	-	24,062	-	1,762	-	5,345
DEPARTMENT OF AGRICULTURE	25,991	22,507	-	-	3,484	-	-	-	-
DEPARTMENT OF COMMERCE	2,476	1	1,503	-	585	-	10	-	377
DEPARTMENT OF DEFENSE	6,018	1,669	3,103	-	1,246	-	-	-	-
DEPARTMENT OF ENERGY	1,856	-	160	-	1,472	-	72	-	152
DEPT OF HEALTH, EDUC AND WELFARE	17,950	1,085	24	-	14,183	-	1,642	-	1,016
DEPARTMENT OF THE INTERIOR	1,468	1,077	-	-	197	-	-	-	194
DEPARTMENT OF TRANSPORTATION	2,598	582	74	-	-	-	-	-	1,942
ENVIRONMENTAL PROTECTION AGENCY	2,611	-	243	-	666	-	38	-	1,664
NATIONAL AERONAUTICS AND SPACE ADMIN	99,731	3,063	96,416	-	252	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,977	-	-	-	1,977	-	-	-	-
OKLAHOMA									
TOTAL	105,008	37,955	45,473	-	15,345	-	3,998	-	2,237
DEPARTMENT OF AGRICULTURE	6,340	3,026	24	-	3,290	-	-	-	-
DEPARTMENT OF COMMERCE	2,619	2,009	234	-	309	-	48	-	19
DEPARTMENT OF DEFENSE	41,836	1,500	38,071	-	2,215	-	-	-	50
DEPARTMENT OF ENERGY	31,534	27,926	1,215	-	493	-	2,000	-	-
DEPT OF HEALTH, EDUC AND WELFARE	7,868	90	-	-	5,349	-	1,745	-	684
DEPARTMENT OF THE INTERIOR	2,443	503	1,091	-	394	-	-	-	455
DEPARTMENT OF TRANSPORTATION	6,169	248	4,758	-	281	-	-	-	882
ENVIRONMENTAL PROTECTION AGENCY	3,481	2,490	1	-	842	-	1	-	147
NATIONAL AERONAUTICS AND SPACE ADMIN	806	263	79	-	464	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,912	-	-	-	1,708	-	204	-	-
TEXAS									
TOTAL	1,078,888	221,889	643,153	-	171,742	-	31,169	-	10,935
DEPARTMENT OF AGRICULTURE	24,028	15,738	70	-	8,218	-	-	-	2
DEPARTMENT OF COMMERCE	6,617	2,117	1,234	-	2,168	-	539	-	559
DEPARTMENT OF DEFENSE	389,109	32,159	345,683	-	9,272	-	1,910	-	85
DEPARTMENT OF ENERGY	41,588	781	26,240	-	13,603	-	776	-	188
DEPT OF HEALTH, EDUC AND WELFARE	115,212	171	1,200	-	103,697	-	8,322	-	1,822
DEPARTMENT OF THE INTERIOR	9,159	3,862	361	-	711	-	1,661	-	2,564
DEPARTMENT OF TRANSPORTATION	33,329	751	17,131	-	4,538	-	5,732	-	5,177
ENVIRONMENTAL PROTECTION AGENCY	22,126	964	7,656	-	2,086	-	11,114	-	306
NATIONAL AERONAUTICS AND SPACE ADMIN	419,501	165,346	243,578	-	9,243	-	1,102	-	232
NATIONAL SCIENCE FOUNDATION	18,219	-	-	-	18,206	-	13	-	-
MOUNTAIN									
TOTAL	2,077,893	494,471	673,185	364,766	184,016	290,687	27,046	12,784	30,938
DEPARTMENT OF AGRICULTURE	56,074	38,110	585	-	17,347	-	-	-	32
DEPARTMENT OF COMMERCE	34,755	25,762	5,291	-	2,722	126	363	-	491
DEPARTMENT OF DEFENSE	545,996	287,688	227,468	1,335	23,980	2,283	3,251	-	31
DEPARTMENT OF ENERGY	990,723	37,770	295,894	363,431	15,281	254,772	9,124	12,784	1,667
DEPT OF HEALTH, EDUC AND WELFARE	101,798	8,832	764	-	71,097	-	9,932	-	11,173
DEPARTMENT OF THE INTERIOR	79,522	58,778	3,788	-	7,698	-	52	-	9,206
DEPARTMENT OF TRANSPORTATION	41,874	21,571	11,974	-	662	-	23	-	7,644
ENVIRONMENTAL PROTECTION AGENCY	15,663	6,321	1,892	-	7,067	-	69	-	314
NATIONAL AERONAUTICS AND SPACE ADMIN	148,037	9,239	125,261	-	11,717	107	1,713	-	-
NATIONAL SCIENCE FOUNDATION	63,451	400	268	-	26,445	33,439	2,519	-	380
ARIZONA									
TOTAL	163,430	44,898	75,703	-	30,379	9,126	1,441	-	1,883
DEPARTMENT OF AGRICULTURE	10,087	7,428	-	-	2,644	-	-	-	15
DEPARTMENT OF COMMERCE	313	-	5	-	207	-	44	-	57
DEPARTMENT OF DEFENSE	78,166	30,220	44,611	-	3,310	-	-	-	25
DEPARTMENT OF ENERGY	15,361	-	14,536	-	825	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	15,920	3,166	91	-	11,104	-	985	-	574
DEPARTMENT OF THE INTERIOR	5,673	3,748	300	-	873	-	39	-	713
DEPARTMENT OF TRANSPORTATION	6,247	-	5,724	-	49	-	-	-	474
ENVIRONMENTAL PROTECTION AGENCY	860	-	-	-	860	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	13,775	336	10,436	-	2,764	-	239	-	-
NATIONAL SCIENCE FOUNDATION	17,028	-	-	-	7,743	9,126	134	-	25

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
COLORADO									
TOTAL	393,185	106,106	166,085	-0-	63,599	23,143	9,779	12,784	11,689
DEPARTMENT OF AGRICULTURE	13,936	9,742	290	-0-	3,904	-0-	-0-	-0-	-0-
DEPARTMENT OF COMMERCE	30,091	25,762	1,665	-0-	2,274	126	215	-0-	49
DEPARTMENT OF DEFENSE	118,184	16,745	98,066	-0-	3,310	-0-	63	-0-	-0-
DEPARTMENT OF ENERGY	39,936	1,759	19,514	-0-	5,097	-0-	229	12,784	553
DEPT OF HEALTH, EDUC AND WELFARE	42,410	101	577	-0-	27,021	-0-	6,466	-0-	8,245
DEPARTMENT OF THE INTERIOR	33,887	27,813	1,768	-0-	2,550	-0-	-0-	-0-	1,756
DEPARTMENT OF TRANSPORTATION	28,694	21,231	6,250	-0-	429	-0-	23	-0-	761
ENVIRONMENTAL PROTECTION AGENCY	6,355	166	1,567	-0-	4,458	-0-	69	-0-	95
NATIONAL AERONAUTICS AND SPACE ADMIN	44,517	2,387	36,269	-0-	4,466	57	1,338	-0-	-0-
NATIONAL SCIENCE FOUNDATION	35,175	400	119	-0-	10,090	22,960	1,376	-0-	230
IDAHO									
TOTAL	107,042	18,243	13,840	65,169	4,977	-0-	528	-0-	4,285
DEPARTMENT OF AGRICULTURE	7,514	5,214	-0-	-0-	2,298	-0-	-0-	-0-	2
DEPARTMENT OF COMMERCE	292	-0-	-0-	-0-	18	-0-	14	-0-	260
DEPARTMENT OF DEFENSE	1,087	1,057	-0-	-0-	30	-0-	-0-	-0-	-0-
DEPARTMENT OF ENERGY	88,984	9,361	13,432	65,169	817	-0-	-0-	-0-	205
DEPT OF HEALTH, EDUC AND WELFARE	1,115	-0-	-0-	-0-	417	-0-	514	-0-	184
DEPARTMENT OF THE INTERIOR	4,861	2,608	388	-0-	700	-0-	-0-	-0-	1,165
DEPARTMENT OF TRANSPORTATION	2,469	-0-	-0-	-0-	-0-	-0-	-0-	-0-	2,469
ENVIRONMENTAL PROTECTION AGENCY	115	-0-	-0-	-0-	115	-0-	-0-	-0-	-0-
NATIONAL AERONAUTICS AND SPACE ADMIN	23	3	20	-0-	-0-	-0-	-0-	-0-	-0-
NATIONAL SCIENCE FOUNDATION	582	-0-	-0-	-0-	582	-0-	-0-	-0-	-0-
MONTANA									
TOTAL	27,490	16,698	1,210	-0-	4,977	-0-	210	-0-	4,395
DEPARTMENT OF AGRICULTURE	10,440	8,400	295	-0-	1,745	-0-	-0-	-0-	-0-
DEPARTMENT OF COMMERCE	35	-0-	11	-0-	-0-	-0-	-0-	-0-	34
DEPARTMENT OF DEFENSE	362	-0-	98	-0-	206	-0-	58	-0-	-0-
DEPARTMENT OF ENERGY	649	-0-	85	-0-	284	-0-	-0-	-0-	280
DEPT OF HEALTH, EDUC AND WELFARE	5,249	4,274	56	-0-	363	-0-	152	-0-	404
DEPARTMENT OF THE INTERIOR	8,631	4,024	675	-0-	1,182	-0-	-0-	-0-	2,750
DEPARTMENT OF TRANSPORTATION	715	-0-	-0-	-0-	-0-	-0-	-0-	-0-	715
ENVIRONMENTAL PROTECTION AGENCY	895	-0-	-0-	-0-	708	-0-	-0-	-0-	187
NATIONAL AERONAUTICS AND SPACE ADMIN	26	-0-	-0-	-0-	26	-0-	-0-	-0-	-0-
NATIONAL SCIENCE FOUNDATION	488	-0-	-0-	-0-	463	-0-	-0-	-0-	25
NEVADA									
TOTAL	196,677	34,782	153,140	-0-	3,551	-0-	3,676	-0-	1,528
DEPARTMENT OF AGRICULTURE	1,749	796	-0-	-0-	953	-0-	-0-	-0-	-0-
DEPARTMENT OF COMMERCE	294	-0-	275	-0-	-0-	-0-	-0-	-0-	19
DEPARTMENT OF DEFENSE	20,041	18,994	848	-0-	199	-0-	-0-	-0-	-0-
DEPARTMENT OF ENERGY	156,298	1,724	150,996	-0-	821	-0-	2,757	-0-	-0-
DEPT OF HEALTH, EDUC AND WELFARE	813	-0-	-0-	-0-	233	-0-	32	-0-	548
DEPARTMENT OF THE INTERIOR	8,503	7,050	63	-0-	587	-0-	-0-	-0-	803
DEPARTMENT OF TRANSPORTATION	76	-0-	-0-	-0-	-0-	-0-	-0-	-0-	76
ENVIRONMENTAL PROTECTION AGENCY	6,400	6,155	52	-0-	161	-0-	-0-	-0-	32
NATIONAL AERONAUTICS AND SPACE ADMIN	1,269	63	906	-0-	300	-0-	-0-	-0-	-0-
NATIONAL SCIENCE FOUNDATION	1,234	-0-	-0-	-0-	297	-0-	887	-0-	50
NEW MEXICO									
TOTAL	987,411	216,106	169,211	299,597	31,293	258,418	10,092	-0-	2,694
DEPARTMENT OF AGRICULTURE	3,967	1,015	-0-	-0-	2,937	-0-	-0-	-0-	15
DEPARTMENT OF COMMERCE	3,685	-0-	3,345	-0-	223	-0-	90	-0-	27
DEPARTMENT OF DEFENSE	281,192	204,369	60,234	1,335	9,875	2,243	3,130	-0-	6
DEPARTMENT OF ENERGY	650,569	-0-	88,983	298,262	2,012	254,772	6,138	-0-	402
DEPT OF HEALTH, EDUC AND WELFARE	14,529	1,291	-0-	-0-	12,302	-0-	644	-0-	292
DEPARTMENT OF THE INTERIOR	4,361	3,319	97	-0-	325	-0-	13	-0-	607
DEPARTMENT OF TRANSPORTATION	1,716	324	-0-	-0-	72	-0-	-0-	-0-	1,320
ENVIRONMENTAL PROTECTION AGENCY	339	-0-	-0-	-0-	339	-0-	-0-	-0-	-0-
NATIONAL AERONAUTICS AND SPACE ADMIN	24,547	5,788	16,552	-0-	2,105	50	52	-0-	-0-
NATIONAL SCIENCE FOUNDATION	2,506	-0-	-0-	-0-	1,103	1,353	25	-0-	25
UTAH									
TOTAL	161,840	27,115	88,844	-0-	41,209	-0-	1,310	-0-	3,362
DEPARTMENT OF AGRICULTURE	6,340	4,560	-0-	-0-	1,780	-0-	-0-	-0-	-0-
DEPARTMENT OF COMMERCE	19	-0-	-0-	-0-	-0-	-0-	-0-	-0-	19
DEPARTMENT OF DEFENSE	46,716	16,303	23,587	-0-	6,826	-0-	-0-	-0-	-0-
DEPARTMENT OF ENERGY	8,782	-0-	3,220	-0-	5,335	-0-	-0-	-0-	227
DEPT OF HEALTH, EDUC AND WELFARE	21,059	-0-	401	-0-	19,248	-0-	1,129	-0-	642
DEPARTMENT OF THE INTERIOR	8,103	5,574	497	-0-	955	-0-	-0-	-0-	1,077
DEPARTMENT OF TRANSPORTATION	1,510	16	-0-	-0-	97	-0-	-0-	-0-	1,397
ENVIRONMENTAL PROTECTION AGENCY	424	-0-	273	-0-	151	-0-	-0-	-0-	-0-
NATIONAL AERONAUTICS AND SPACE ADMIN	63,371	662	61,078	-0-	1,547	-0-	84	-0-	-0-
NATIONAL SCIENCE FOUNDATION	5,516	-0-	149	-0-	5,270	-0-	97	-0-	-0-

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRA-MURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
WYOMING									
TOTAL	40,818	30,523	5,152	-	4,031	-	10	-	1,102
DEPARTMENT OF AGRICULTURE	2,041	955	-	-	1,086	-	-	-	-
DEPARTMENT OF COMMERCE	26	-	-	-	-	-	-	-	26
DEPARTMENT OF DEFENSE	248	-	24	-	224	-	-	-	-
DEPARTMENT OF ENERGY	30,144	24,926	5,128	-	90	-	-	-	-
DEPT OF HEALTH, EDUC AND WELFARE	703	-	-	-	409	-	10	-	284
DEPARTMENT OF THE INTERIOR	5,503	4,642	-	-	526	-	-	-	335
DEPARTMENT OF TRANSPORTATION	447	-	-	-	15	-	-	-	432
ENVIRONMENTAL PROTECTION AGENCY	275	-	-	-	275	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	509	-	-	-	509	-	-	-	-
NATIONAL SCIENCE FOUNDATION	922	-	-	-	897	-	-	-	25
PACIFIC									
TOTAL	7,208,094	959,292	4,521,756	163,751	628,130	525,258	156,303	205,464	48,140
DEPARTMENT OF AGRICULTURE	70,315	52,049	52	-	17,909	-	94	-	211
DEPARTMENT OF COMMERCE	47,998	28,170	5,103	-	9,404	35	1,785	-	3,501
DEPARTMENT OF DEFENSE	3,791,376	657,302	2,926,676	-	58,363	8,071	25,045	115,274	645
DEPARTMENT OF ENERGY	991,369	12,294	254,282	163,751	41,218	419,250	8,962	86,794	4,818
DEPT OF HEALTH, EDUC AND WELFARE	465,564	5,286	13,383	-	311,561	5,691	108,301	1,444	19,898
DEPARTMENT OF THE INTERIOR	94,185	58,595	18,937	-	10,096	-	176	-	6,381
DEPARTMENT OF TRANSPORTATION	49,829	2,408	36,802	-	1,799	-	257	-	8,563
ENVIRONMENTAL PROTECTION AGENCY	53,827	8,673	32,588	-	6,431	-	2,282	532	3,321
NATIONAL AERONAUTICS AND SPACE ADMIN	1,481,802	134,199	1,221,333	-	31,124	91,157	3,048	881	60
NATIONAL SCIENCE FOUNDATION	161,829	316	12,600	-	140,225	1,054	6,353	539	742
ALASKA									
TOTAL	48,701	22,301	506	-	19,257	-	76	-	6,561
DEPARTMENT OF AGRICULTURE	3,875	3,002	-	-	851	-	-	-	22
DEPARTMENT OF COMMERCE	5,343	3,473	15	-	1,090	-	1	-	764
DEPARTMENT OF DEFENSE	12,379	3,854	93	-	8,432	-	-	-	-
DEPARTMENT OF ENERGY	1,068	-	169	-	582	-	-	-	317
DEPT OF HEALTH, EDUC AND WELFARE	2,622	-	-	-	450	-	75	-	2,097
DEPARTMENT OF THE INTERIOR	15,818	11,548	6	-	1,820	-	-	-	2,444
DEPARTMENT OF TRANSPORTATION	74	-	-	-	55	-	-	-	19
ENVIRONMENTAL PROTECTION AGENCY	947	-	-	-	99	-	-	-	848
NATIONAL AERONAUTICS AND SPACE ADMIN	979	424	223	-	332	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,596	-	-	-	5,546	-	-	-	50
CALIFORNIA									
TOTAL	6,141,148	852,052	3,999,427	20,865	463,715	525,258	124,478	126,323	29,030
DEPARTMENT OF AGRICULTURE	35,696	28,729	42	-	6,870	-	17	-	38
DEPARTMENT OF COMMERCE	16,863	6,329	3,860	-	3,745	35	1,734	-	1,160
DEPARTMENT OF DEFENSE	3,334,651	638,923	2,506,179	-	41,579	8,071	24,590	115,198	111
DEPARTMENT OF ENERGY	697,445	9,072	197,750	20,865	32,478	419,250	5,975	8,318	3,737
DEPT OF HEALTH, EDUC AND WELFARE	352,385	3,644	13,319	-	234,534	5,691	81,135	1,103	12,959
DEPARTMENT OF THE INTERIOR	55,445	28,809	17,729	-	6,018	-	176	-	2,713
DEPARTMENT OF TRANSPORTATION	32,257	2,225	23,085	-	1,068	-	257	-	5,621
ENVIRONMENTAL PROTECTION AGENCY	41,099	767	32,428	-	3,247	-	2,012	345	2,300
NATIONAL AERONAUTICS AND SPACE ADMIN	1,447,821	133,237	1,192,982	-	26,586	91,157	2,957	881	21
NATIONAL SCIENCE FOUNDATION	127,486	316	12,053	-	107,590	1,054	5,625	478	370
HAWAII									
TOTAL	44,648	8,802	9,350	-	22,885	-	2,517	-	1,094
DEPARTMENT OF AGRICULTURE	4,554	2,471	-	-	2,052	-	31	-	-
DEPARTMENT OF COMMERCE	2,831	1,857	71	-	860	-	31	-	104
DEPARTMENT OF DEFENSE	8,916	1,608	5,040	-	2,094	-	174	-	-
DEPARTMENT OF ENERGY	7,363	-	4,259	-	2,802	-	-	-	302
DEPT OF HEALTH, EDUC AND WELFARE	11,217	709	-	-	8,225	-	1,730	-	553
DEPARTMENT OF THE INTERIOR	2,463	2,018	-	-	421	-	-	-	24
DEPARTMENT OF TRANSPORTATION	95	15	21	-	-	-	-	-	59
ENVIRONMENTAL PROTECTION AGENCY	180	-	-	-	180	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	2,281	124	23	-	2,134	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,748	-	-	-	4,117	-	579	-	52
OREGON									
TOTAL	95,279	32,143	5,886	-	39,661	-	12,811	-	4,778
DEPARTMENT OF AGRICULTURE	14,890	10,849	10	-	4,031	-	-	-	-
DEPARTMENT OF COMMERCE	2,550	617	8	-	1,385	-	-	-	540
DEPARTMENT OF DEFENSE	4,416	1,062	571	-	2,405	-	-	-	378
DEPARTMENT OF ENERGY	9,999	2,865	3,333	-	1,339	-	2,000	-	462
DEPT OF HEALTH, EDUC AND WELFARE	30,549	125	49	-	19,197	-	10,811	-	367
DEPARTMENT OF THE INTERIOR	10,423	8,971	262	-	544	-	-	-	646
DEPARTMENT OF TRANSPORTATION	2,668	-	315	-	267	-	-	-	2,086
ENVIRONMENTAL PROTECTION AGENCY	8,663	7,564	-	-	936	-	-	-	163
NATIONAL AERONAUTICS AND SPACE ADMIN	1,822	90	920	-	812	-	-	-	-
NATIONAL SCIENCE FOUNDATION	9,299	-	418	-	8,745	-	-	-	136

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TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL(1)	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WASHINGTON									
TOTAL	878,318	43,994	506,587	142,886	82,612	-	16,421	79,141	6,677
DEPARTMENT OF AGRICULTURE	11,300	6,998	-	-	4,105	-	46	-	151
DEPARTMENT OF COMMERCE	20,411	15,894	1,213	-	2,324	-	47	-	933
DEPARTMENT OF DEFENSE	431,014	11,855	414,793	-	3,853	-	281	76	156
DEPARTMENT OF ENERGY	275,494	357	48,771	142,886	4,017	-	987	78,476	-
DEPT OF HEALTH, EDUC AND WELFARE	68,791	808	151	-	49,155	-	14,550	341	3,922
DEPARTMENT OF THE INTERIOR	10,036	7,249	940	-	1,293	-	-	-	554
DEPARTMENT OF TRANSPORTATION	14,735	167	13,381	-	409	-	-	-	778
ENVIRONMENTAL PROTECTION AGENCY	2,938	342	160	-	1,969	-	270	187	10
NATIONAL AERONAUTICS AND SPACE ADMIN	28,899	324	27,185	-	1,260	-	91	-	39
NATIONAL SCIENCE FOUNDATION	14,700	-	129	-	14,227	-	149	61	134
OUTLYING AREAS									
TOTAL	38,732	6,357	17,413	-	8,976	4,259	94	-	1,633
DEPARTMENT OF AGRICULTURE	5,472	1,676	96	-	3,700	-	-	-	-
DEPARTMENT OF COMMERCE	790	119	20	-	275	-	-	-	376
DEPARTMENT OF DEFENSE	20,082	3,606	16,476	-	-	-	-	-	-
DEPARTMENT OF ENERGY	2,822	-	821	-	1,511	-	-	-	490
DEPT OF HEALTH, EDUC AND WELFARE	3,678	219	-	-	2,870	-	94	-	495
DEPARTMENT OF THE INTERIOR	1,037	711	-	-	190	-	-	-	136
DEPARTMENT OF TRANSPORTATION	86	-	-	-	-	-	-	-	86
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	26	26	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,739	-	-	-	430	4,259	-	-	50
OFFICES ABROAD									
TOTAL	45,900	23,071	8,754	-	578	3,885	9,266	-	346
DEPARTMENT OF AGRICULTURE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE	5,976	3,103	2,659	-	103	-	111	-	-
DEPARTMENT OF ENERGY	14,834	-	5,948	-	-	-	8,540	-	346
DEPT OF HEALTH, EDUC AND WELFARE	209	-	-	-	-	-	209	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	-	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	1,028	-	147	-	475	-	406	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	19,968	19,968	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,885	-	-	-	-	3,885	-	-	-

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-102. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND PERFORMER SUPPORTED: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL						
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL, ALL STATES	1,261,988	491,496	76,848	251,380	54,542	375,219	4,423	8,080	-
NEW ENGLAND	34,850	18,035	2,532	-	14,283	-	-	-	-
CONNECTICUT	2,332	1,131	1,073	-	128	-	-	-	-
MAINE	100	100	-	-	-	-	-	-	-
MASSACHUSETTS	28,727	13,220	1,352	-	14,155	-	-	-	-
NEW HAMPSHIRE	1,266	1,199	67	-	-	-	-	-	-
RHODE ISLAND	2,425	2,385	40	-	-	-	-	-	-
VERMONT	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	189,334	15,042	4,088	33,917	17,921	118,366	-	-	-
NEW JERSEY	96,715	2,032	312	-	45	94,326	-	-	-
NEW YORK	63,831	3,513	937	17,475	17,866	24,040	-	-	-
PENNSYLVANIA	28,788	9,497	2,839	16,442	10	-	-	-	-
EAST NORTH CENTRAL	108,733	29,255	7,716	696	5,155	65,561	350	-	-
ILLINOIS	72,877	4,288	1,581	-	1,447	65,561	-	-	-
INDIANA	415	265	-	-	150	-	-	-	-
MICHIGAN	1,888	503	510	-	525	-	350	-	-
OHIO	23,906	17,561	5,625	696	24	-	-	-	-
WISCONSIN	9,647	6,638	-	-	3,009	-	-	-	-
WEST NORTH CENTRAL	7,596	5,007	1,123	-	4	1,462	-	-	-
IOWA	2,316	850	-	-	4	1,462	-	-	-
KANSAS	193	193	-	-	-	-	-	-	-
MINNESOTA	1,216	1,191	25	-	-	-	-	-	-
MISSOURI	1,235	137	1,098	-	-	-	-	-	-
NEBRASKA	252	252	-	-	-	-	-	-	-
NORTH DAKOTA	2,258	2,258	-	-	-	-	-	-	-
SOUTH DAKOTA	126	126	-	-	-	-	-	-	-
SOUTH ATLANTIC	233,402	206,289	8,205	1,444	2,165	12,875	2,424	-	-
DELAWARE	21	21	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA	11,133	9,438	228	-	1,467	-	-	-	-
FLORIDA	81,096	81,056	30	-	10	-	-	-	-
GEORGIA	1,791	1,193	19	-	579	-	-	-	-
MARYLAND	82,657	80,380	1,834	-	13	-	430	-	-
NORTH CAROLINA	3,475	1,181	300	-	-	-	1,994	-	-
SOUTH CAROLINA	6,942	96	5,402	1,444	-	-	-	-	-
VIRGINIA	29,274	28,786	392	-	96	-	-	-	-
WEST VIRGINIA	17,013	4,138	-	-	-	12,875	-	-	-
EAST SOUTH CENTRAL	55,866	21,742	2,374	26,331	5,056	363	-	-	-
ALABAMA	6,457	4,212	-	-	2,245	-	-	-	-
KENTUCKY	11	11	-	-	-	-	-	-	-
MISSISSIPPI	5,954	5,146	808	-	-	-	-	-	-
TENNESSEE	43,444	12,373	1,566	26,331	2,811	363	-	-	-
WEST SOUTH CENTRAL	34,636	33,666	26	-	944	-	-	-	-
ARKANSAS	924	915	-	-	9	-	-	-	-
LOUISIANA	20,852	20,852	-	-	-	-	-	-	-
OKLAHOMA	1,042	1,026	16	-	-	-	-	-	-
TEXAS	11,818	10,873	10	-	935	-	-	-	-
MOUNTAIN	210,153	55,226	22,850	80,272	181	50,323	6	1,295	-
ARIZONA	33,852	33,677	175	-	-	-	-	-	-
COLORADO	11,643	5,861	505	-	17	3,965	-	1,295	-
IDAHO	35,632	582	416	34,622	12	-	-	-	-
MONTANA	38	38	-	-	-	-	-	-	-
NEVADA	18,473	193	18,280	-	-	-	-	-	-
NEW MEXICO	101,655	6,303	3,287	45,650	51	46,358	6	-	-
UTAH	7,991	7,703	187	-	101	-	-	-	-
WYOMING	869	869	-	-	-	-	-	-	-
PACIFIC	381,855	104,780	26,302	108,720	8,581	125,044	1,643	6,785	-
ALASKA	743	651	-	-	92	-	-	-	-
CALIFORNIA	259,484	99,794	22,907	5,604	5,822	125,044	313	-	-
HAWAII	694	694	-	-	-	-	-	-	-
OREGON	2,604	64	-	-	2,540	-	-	-	-
WASHINGTON	118,330	3,577	3,395	103,116	127	-	1,330	6,785	-
OUTLYING AREAS	1,699	222	-	-	252	1,225	-	-	-
OFFICES ABROAD	3,864	2,232	1,632	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1978

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH, EDUC & WELFARE	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL, ALL STATES	1,261,988	24,665	4,064	232,600	690,612	74,273	15,011	14,100	4,623	162,340	39,700
NEW ENGLAND	34,850	394	-	18,454	10,637	1,907	-	1,288	58	77	2,035
CONNECTICUT	2,332	-	-	729	278	-	-	1,288	-	37	-
MAINE	100	-	-	100	-	-	-	-	-	-	-
MASSACHUSETTS	28,727	394	-	14,169	10,182	1,907	-	-	-	40	2,035
NEW HAMPSHIRE	1,266	-	-	1,129	137	-	-	-	-	-	-
RHODE ISLAND	2,425	-	-	2,327	40	-	-	-	58	-	-
VERMONT	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	189,334	2,307	1,065	3,974	162,049	823	1,445	1,362	14	5,195	11,100
NEW JERSEY	96,715	-	133	1,024	94,371	-	-	1,168	14	5	-
NEW YORK	63,831	1,556	920	1,190	47,812	823	-	-	-	430	11,100
PENNSYLVANIA	28,788	751	12	1,760	19,866	-	1,445	194	-	4,760	-
EAST NORTH CENTRAL	108,733	3,342	-	15,800	75,359	2,649	5,560	-	50	4,373	1,600
ILLINOIS	72,877	1,478	-	2,669	67,555	1,174	-	-	1	-	-
INDIANA	415	125	-	123	150	-	-	-	-	17	-
MICHIGAN	1,888	370	-	10	1,025	350	-	-	-	133	-
OHIO	23,906	316	-	12,998	6,345	-	-	-	49	4,198	-
WISCONSIN	9,647	1,053	-	-	284	1,125	5,560	-	-	25	1,600
WEST NORTH CENTRAL	7,596	3,416	-	444	3,012	-	-	-	636	88	-
IOWA	2,316	850	-	-	1,466	-	-	-	-	-	-
KANSAS	193	193	-	-	-	-	-	-	-	-	-
MINNESOTA	1,216	140	-	429	-	-	-	-	636	11	-
MISSOURI	1,235	60	-	-	1,098	-	-	-	-	77	-
NEBRASKA	252	252	-	-	-	-	-	-	-	-	-
NORTH DAKOTA	2,258	1,795	-	15	448	-	-	-	-	-	-
SOUTH DAKOTA	126	126	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	233,402	7,176	598	41,793	13,171	62,735	520	600	1,238	90,746	14,825
DELAWARE	21	21	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA	11,133	301	20	4,941	1,516	947	-	-	-	1,458	1,950
FLORIDA	81,096	701	-	23,370	-	-	-	-	752	56,273	-
GEORGIA	1,791	782	-	-	743	-	-	-	52	214	-
MARYLAND	82,657	1,729	554	10,591	1,146	61,658	-	200	431	6,348	-
NORTH CAROLINA	3,475	398	-	-	1,994	130	300	-	-	653	-
SOUTH CAROLINA	6,942	77	-	-	6,846	-	-	-	3	16	-
VIRGINIA	29,274	79	24	2,891	96	-	-	400	-	25,784	-
WEST VIRGINIA	17,013	3,088	-	-	830	-	220	-	-	-	12,875
EAST SOUTH CENTRAL	55,866	1,730	-	14,773	31,842	2,245	-	300	27	4,949	-
ALABAMA	6,457	1,013	-	-	-	2,245	-	300	26	2,873	-
KENTUCKY	11	11	-	-	-	-	-	-	-	-	-
MISSISSIPPI	5,954	699	-	3,405	808	-	-	-	1	1,041	-
TENNESSEE	43,444	7	-	11,368	31,034	-	-	-	-	1,035	-
WEST SOUTH CENTRAL	34,636	2,070	-	5,403	353	1,650	-	-	34	24,926	200
ARKANSAS	924	-	-	-	9	915	-	-	-	-	-
LOUISIANA	20,852	700	-	-	-	-	-	-	-	20,152	-
OKLAHOMA	1,042	642	-	3	344	-	-	-	34	19	-
TEXAS	11,818	728	-	5,400	-	735	-	-	-	4,755	200
MOUNTAIN	210,153	1,600	126	45,716	146,926	-	7,411	3,254	-	1,155	3,965
ARIZONA	33,852	173	-	33,554	125	-	-	-	-	-	-
COLORADO	11,643	229	126	1,115	1,956	-	-	3,254	-	998	3,965
IDAHO	35,632	552	-	-	35,080	-	-	-	-	-	-
MONTANA	38	38	-	-	-	-	-	-	-	-	-
NEVADA	18,473	-	-	2,266	16,207	-	-	-	-	-	-
NEW MEXICO	101,655	67	-	8,577	92,709	-	300	-	-	2	-
UTAH	7,991	420	-	204	101	-	7,111	-	-	155	-
WYOMING	869	121	-	-	748	-	-	-	-	-	-
PACIFIC	381,855	2,433	2,275	85,298	245,354	2,264	75	7,296	2,566	29,544	4,750
ALASKA	743	-	-	626	-	-	-	-	-	117	-
CALIFORNIA	259,484	1,766	-	84,242	131,665	934	-	7,296	-	28,831	4,750
HAWAII	694	287	-	407	-	-	-	-	-	-	-
OREGON	2,604	58	2,275	10	255	-	-	-	6	-	-
WASHINGTON	118,330	322	-	13	113,434	1,330	75	-	2,560	596	-
OUTLYING AREAS	1,699	197	-	-	277	-	-	-	-	-	1,225
OFFICES ABROAD	3,864	-	-	945	1,632	-	-	-	-	1,287	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORT AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1978.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	6,882,033	3,904,602	56.7%	7,521,493	4,248,034	56.5%	7,747,419	4,344,488	56.1%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	417,781	273,591	65.5	448,978	291,555	64.9	437,151	297,312	68.0
ECON, STAT & COOPERATIVES SERVICE	30,516	19,835	65.0	33,700	21,905	65.0	37,600	24,440	65.0
FOREST SERVICE	94,616	84,137	88.9	100,961	89,690	88.8	94,418	94,134	99.7
SCIENCE & EDUCATION ADMINISTRATION	292,649	169,619	58.0	314,317	179,960	57.3	305,133	178,738	58.6
AGRICULTURAL RESEARCH	287,454	164,424	57.2	307,454	173,097	56.3	297,400	171,005	57.5
COOPERATIVE RESEARCH	5,195	5,195	100.0	6,863	6,863	100.0	7,733	7,733	100.0
DEPARTMENT OF COMMERCE, TOTAL	178,278	99,464	55.8	202,769	108,289	53.4	216,896	113,347	52.3
BUREAU OF THE CENSUS	3,305	2,064	62.5	3,614	2,260	62.5	4,391	2,695	61.4
ECONOMIC DEVELOPMENT ADMINISTRATION	1,564	156	10.0	1,620	163	10.1	1,116	113	10.1
MARITIME ADMINISTRATION	1,757	209	11.9	2,739	254	9.3	2,243	216	9.6
NATIONAL BUREAU OF STANDARDS	54,517	39,965	73.3	61,580	44,511	72.3	66,581	47,043	70.7
NAT'L OCEANIC & ATMOSPHERIC ADMIN	114,811	55,371	48.2	128,544	57,759	44.9	136,944	59,272	43.3
NAT'L TELECOMM & INFORMATION ADMIN	1,808	1,266	70.0	4,154	2,907	70.0	5,100	3,570	70.0
PATENT AND TRADEMARK OFFICE	516	433	83.9	518	435	84.0	521	438	84.1
DEPARTMENT OF DEFENSE, TOTAL	3,284,838	1,963,973	59.8	3,584,095	2,063,443	57.6	3,762,526	2,189,072	58.2
DEPARTMENT OF THE ARMY	926,124	509,216	55.0	1,059,940	560,375	52.9	1,131,016	591,889	52.3
DEPARTMENT OF THE NAVY	1,131,227	662,462	58.6	1,218,155	665,561	54.6	1,243,245	705,205	56.7
DEPARTMENT OF THE AIR FORCE	997,410	683,015	68.5	1,032,737	703,579	68.1	1,055,599	725,438	68.7
DEFENSE AGENCIES	204,777	108,011	52.7	251,153	132,670	52.8	304,650	164,731	54.1
DEFENSE CIVIL PREPAREDNESS AGENCY	1,673	669	40.0	1,144	458	40.0	2,398	959	40.0
DIRECTOR OF TEST & EVALUATION, DEFENSE	23,627	600	2.5	20,966	800	3.8	25,618	850	3.3
DEPARTMENT OF ENERGY, TOTAL	317,675	108,703	34.2	351,904	170,244	48.4	326,421	117,383	36.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	685,856	310,961	45.3	769,336	352,749	45.9	791,651	372,705	47.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	51,442	25,407	49.4	58,192	28,719	49.4	66,616	31,963	48.0
CENTER FOR DISEASE CONTROL	42,618	36,225	85.0	45,662	38,813	85.0	54,111	45,994	85.0
FOOD & DRUG ADMINISTRATION	41,093	25,743	62.6	43,204	28,080	65.0	44,927	28,256	62.9
HEALTH CARE FINANCING ADMIN	5,238	2,514	48.0	8,775	4,212	48.0	13,851	6,648	48.0
HEALTH RESOURCES ADMINISTRATION	201	133	66.2	45	30	66.7	11	11	100.1
HEALTH SERVICES ADMINISTRATION	4,818	3,001	62.3	5,387	3,245	60.2	5,000	3,255	65.1
HUMAN DEVELOPMENT SERVICES	5,281	2,516	47.6	6,845	3,071	44.9	6,537	2,972	45.5
NATIONAL INSTITUTE OF EDUCATION	15,328	9,285	60.6	15,531	10,081	64.9	14,658	10,505	71.7
NATIONAL INSTITUTES OF HEALTH	494,032	189,477	38.4	557,057	215,160	38.6	556,789	219,781	39.5
OFFICE OF ASST'T SECY FOR EDUC	138	105	76.1	151	116	76.8	248	191	77.0
OFFICE OF ASST'T SECY FOR HEALTH	11,295	6,641	58.8	11,419	6,981	61.1	10,069	6,993	69.5
OFFICE OF EDUCATION	1,811	1,431	79.0	2,402	2,045	85.1	2,617	2,153	82.3
OFFICE OF THE SECRETARY	2,715	1,000	36.8	3,164	1,000	31.6	2,879	1,000	34.7
SOCIAL SECURITY ADMINISTRATION	9,846	7,483	76.0	11,502	11,196	97.3	13,348	12,993	97.3
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	24,930	12,110	48.6	24,271	10,336	42.6	22,465	10,275	45.7
DEPARTMENT OF THE INTERIOR, TOTAL	241,956	151,739	62.7	268,551	169,164	63.0	261,190	156,361	59.9
BUREAU OF LAND MANAGEMENT	573	384	67.0	623	365	58.6	510	385	75.5
BUREAU OF MINES	52,868	42,500	80.4	61,591	49,800	80.9	49,826	40,400	81.1
BUREAU OF RECLAMATION	6,294	4,031	64.0	5,918	3,793	64.1	6,230	3,998	64.2
GEOLOGICAL SURVEY	149,693	79,416	53.1	162,311	85,441	52.6	166,069	81,374	49.0
NATIONAL PARK SERVICE	3,512	2,213	63.0	3,687	2,323	63.0	3,872	2,439	63.0
OFFICE OF THE SECRETARY	1,048	845	80.6	941	762	81.0	883	715	81.0
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	198	30	15.2	200	30	15.0	200	30	15.0
OFFICE OF WATER RSCH & TECHNOLOGY	1,500	1,300	86.7	1,600	1,300	81.3	1,700	1,500	88.2
US FISH & WILDLIFE SERVICE	26,270	21,020	80.0	31,680	25,350	80.0	31,900	25,520	80.0
DEPARTMENT OF JUSTICE, TOTAL	6,028	2,875	47.7	6,086	3,750	61.6	5,497	3,250	59.1
BUREAU OF PRISONS	1,910	707	37.0	1,988	706	35.5	829	552	66.6
DRUG ENFORCEMENT ADMINISTRATION	500	500	100.0	1,400	1,400	100.0	1,000	1,000	100.0
FEDERAL BUREAU OF INVESTIGATION	275	275	100.0	225	225	100.0	215	215	100.0
IMMIGRATION & NATURALIZATION SVC	316	35	11.1	178	37	20.8	200	36	18.0
LAW ENFORCEMENT ASSISTANCE ADMIN	2,936	1,321	45.0	2,273	1,374	60.4	3,241	1,443	44.5
OFFICE OF THE ATTORNEY GENERAL	91	37	40.7	22	8	36.4	12	4	33.3
DEPARTMENT OF LABOR, TOTAL	8,986	7,195	80.1	11,726	10,047	85.7	12,537	10,822	86.3
BUREAU OF LABOR STATISTICS	1,178	1,060	90.0	855	770	90.1	807	726	90.0
EMPLOYMENT STANDARDS ADMINISTRATION	3,026	2,776	91.7	5,813	5,060	87.0	7,056	6,199	87.9
EMPLOYMENT & TRAINING ADMIN	3,140	2,669	85.0	3,224	2,771	85.9	2,839	2,499	88.0
LABOR-MANAGEMENT SERVICES ADMIN	1,006	307	30.5	1,088	700	64.3	1,089	652	59.9
OCCUPATIONAL SAFETY & HEALTH ADMIN	200	200	100.0	246	246	100.0	246	246	100.0
OFFICE OF THE SECRETARY	436	183	42.0	500	500	100.0	500	500	100.0
DEPARTMENT OF STATE, TOTAL	4,366	3,457	79.2	8,235	7,841	95.2	5,098	4,859	95.3
AGENCY FOR INTERNAT'L DEVELOPMENT	3,968	3,332	84.0	7,765	7,690	99.0	4,770	4,760	99.8
DEPARTMENTAL FUNDS	398	125	31.4	470	151	32.1	328	99	30.2

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TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL	109,304	61,863	56.6	115,684	68,647	59.3	106,837	63,456	59.4
COAST GUARD	5,495	2,122	38.6	4,986	2,313	46.4	5,145	2,451	47.6
FEDERAL AVIATION ADMINISTRATION	26,762	14,720	55.0	29,365	16,152	55.0	25,939	14,267	55.0
FEDERAL HIGHWAY ADMINISTRATION	12,560	10,595	84.4	13,183	11,115	84.3	13,460	11,350	84.3
FEDERAL RAILROAD ADMINISTRATION	19,610	7,054	36.0	18,079	9,934	54.9	16,033	8,810	54.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,002	6,314	57.4	11,407	6,529	57.2	10,180	5,804	57.0
OFFICE OF THE SECRETARY	15,755	11,951	75.9	13,327	10,059	75.5	11,168	8,428	75.5
RESEARCH & SPECIAL PROGRAMS ADMIN	278	69	24.8	7,095	3,305	46.6	6,642	3,092	46.6
URBAN MASS TRANSPORTATION ADMIN	17,842	9,038	50.7	18,242	9,240	50.7	18,270	9,254	50.7
DEPARTMENT OF THE TREASURY, TOTAL	5,290	2,792	52.8	4,984	2,888	57.9	5,379	3,039	56.5
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	74	74	100.0	152	152	100.0	179	179	100.0
BUREAU OF ENGRAVING AND PRINTING	2,947	1,085	36.8	2,648	1,112	42.0	2,547	1,120	44.0
CUSTOMS SERVICE	344	133	38.7	409	124	30.3	878	240	27.3
INTERNAL REVENUE SERVICE	1,925	1,500	77.9	1,775	1,500	84.5	1,775	1,500	84.5
OTHER AGENCIES									
ACTION	116	101	87.1	114	114	100.0	135	135	100.0
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	1,008	59.8	1,703	1,043	61.2	1,683	1,095	65.1
APPALACHIAN REGIONAL COMMISSION	27	20	74.1	60	43	71.7	60	43	71.7
CIVIL AERONAUTICS BOARD	711	635	89.3	830	600	72.3	730	545	74.7
COMMUNITY SERVICES ADMINISTRATION	1,520	1,518	99.9	1,510	1,508	99.9	1,520	1,516	99.7
CONSUMER PRODUCT SAFETY COMMISSION	2,372	189	8.0	5,276	791	15.0	3,380	473	14.0
ENVIRONMENTAL PROTECTION AGENCY	159,299	54,322	34.1	162,075	61,220	37.8	162,141	60,840	37.5
FEDERAL COMMUNICATIONS COMMISSION	1,775	1,775	100.0	1,649	1,649	100.0	1,790	1,790	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,928	2,853	72.6	4,713	3,179	67.5	3,574	2,264	63.3
FEDERAL HOME LOAN BANK BOARD	931	506	54.4	1,092	540	49.5	1,185	558	47.1
FEDERAL TRADE COMMISSION	1,356	1,236	91.2	1,521	1,408	92.6	1,312	1,196	91.2
GENERAL SERVICES ADMINISTRATION	1,425	1,069	75.0	149	113	75.8	95	72	75.8
INTERNATIONAL COMMUNICATION AGENCY	105	81	77.1	71	46	64.8	100	68	68.0
INTERSTATE COMMERCE COMMISSION	250	250	100.0	265	265	100.0	300	300	100.0
LIBRARY OF CONGRESS	4,517	3,478	77.0	4,600	3,732	81.1	4,800	3,732	77.8
NATIONAL AERONAUTICS & SPACE ADMIN	1,155,650	673,693	58.3	1,222,928	716,205	58.6	1,274,701	722,242	56.7
NATIONAL SCIENCE FOUNDATION	83,355	35,787	42.9	93,942	39,689	42.2	98,483	40,666	41.3
NUCLEAR REGULATORY COMMISSION	11,222	4,816	42.9	14,304	5,620	39.3	22,470	5,755	25.6
OFFICE OF PERSONNEL MANAGEMENT	1,974	1,974	100.0	2,048	2,048	100.0	2,508	2,508	100.0
SMITHSONIAN INSTITUTION	31,996	22,387	70.0	33,937	25,090	73.9	35,944	26,271	73.1
TENNESSEE VALLEY AUTHORITY	17,069	13,652	80.0	42,045	33,635	80.0	46,047	36,836	80.0
US ARMS CONTROL & DISARMAMENT AGENCY	444	306	68.9	820	440	53.7	750	500	66.7
US INTERNATIONAL TRADE COMMISSION	3,119	2,495	80.0	3,285	2,628	80.0	3,648	2,918	80.0
VETERANS ADMINISTRATION	111,899	81,728	73.0	125,937	87,475	69.5	126,415	90,284	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105.. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	1,046,603	532,518	50.9%	1,156,543	583,046	50.4%	1,202,528	594,598	49.4%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	160,599	100,845	62.8	160,950	100,641	62.5	161,638	104,638	64.7
ECON, STAT & COOPERATIVES SERVICE	3,649	2,372	65.0	4,044	2,629	65.0	4,512	2,933	65.0
FOREST SERVICE	24,104	21,530	89.3	25,699	22,951	89.3	23,565	23,494	99.7
SCIENCE & EDUCATION ADMINISTRATION	132,846	76,943	57.9	131,207	75,061	57.2	133,561	78,211	58.6
AGRICULTURAL RESEARCH	130,615	74,712	57.2	128,480	72,334	56.3	130,235	74,885	57.5
COOPERATIVE RESEARCH	2,231	2,231	100.0	2,727	2,727	100.0	3,326	3,326	100.0
DEPARTMENT OF COMMERCE, TOTAL	16,274	7,974	49.0	19,223	10,055	52.3	22,673	8,272	36.5
BUREAU OF THE CENSUS	371	235	63.3	485	345	71.1	683	438	64.1
ECONOMIC DEVELOPMENT ADMINISTRATION	10	1	10.0	10	1	10.0	5	1	20.0
MARITIME ADMINISTRATION	90	27	30.0	108	32	29.6	101	30	29.7
NATIONAL BUREAU OF STANDARDS	5,485	3,234	59.0	8,160	4,811	59.0	10,250	6,043	59.0
NAT'L OCEANIC & ATMOSPHERIC ADMIN	10,318	4,477	43.4	10,460	4,866	46.5	11,634	1,760	15.1
DEPARTMENT OF DEFENSE, TOTAL	96,839	56,352	58.2	113,190	59,511	52.6	124,985	66,688	53.4
DEPARTMENT OF THE ARMY	23,691	12,109	51.1	25,792	11,964	46.4	30,234	13,778	45.6
DEPARTMENT OF THE NAVY	44,746	26,498	59.2	54,113	26,622	49.2	54,201	28,208	52.0
DEPARTMENT OF THE AIR FORCE	23,223	14,497	62.4	24,730	15,294	61.8	28,000	16,212	57.9
DEFENSE AGENCIES	5,179	3,248	62.7	8,555	5,631	65.8	12,550	8,490	67.6
DEPARTMENT OF ENERGY, TOTAL	7,180	4,721	65.8	4,966	3,769	75.9	5,546	4,242	76.5
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	284,544	107,014	37.6	332,315	126,858	38.2	336,861	131,906	39.2
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	32,556	16,493	50.7	36,830	18,426	50.0	41,606	20,496	49.3
HEALTH SERVICES ADMINISTRATION	636	452	71.1	1,100	800	72.7	1,000	781	78.1
HUMAN DEVELOPMENT SERVICES	101	74	73.3	105	77	73.3	92	67	72.8
NATIONAL INSTITUTE OF EDUCATION	3,036	1,895	62.4	3,650	2,369	64.9	3,489	2,500	71.7
NATIONAL INSTITUTES OF HEALTH	244,690	86,704	35.4	286,582	103,707	36.2	287,049	106,487	37.1
OFFICE OF ASST'T SECY FOR HEALTH	1,060	596	56.2	1,072	629	58.7	937	725	77.4
OFFICE OF THE SECRETARY	2,465	800	32.5	2,976	850	28.6	2,688	850	31.6
DEPARTMENT OF THE INTERIOR, TOTAL	131,402	74,118	56.4	148,198	84,541	57.0	145,188	77,342	53.3
BUREAU OF MINES	8,600	7,300	84.9	13,800	11,700	84.8	11,300	9,600	85.0
BUREAU OF RECLAMATION	150	120	80.0	123	98	79.7	194	155	79.9
GEOLOGICAL SURVEY	117,084	62,133	53.1	127,964	67,581	52.8	127,341	62,397	49.0
OFFICE OF THE SECRETARY	1,048	845	80.6	941	762	81.0	883	715	81.0
OFFICE OF WATER RSCH & TECHNOLOGY	500	500	100.0	500	500	100.0	500	500	100.0
US FISH & WILDLIFE SERVICE	4,020	3,220	80.1	4,870	3,900	80.1	4,970	3,975	80.0
DEPARTMENT OF JUSTICE, TOTAL	849	345	40.6	571	365	63.9	954	341	35.7
LAW ENFORCEMENT ASSISTANCE ADMIN	849	345	40.6	571	365	63.9	954	341	35.7
DEPARTMENT OF LABOR, TOTAL	255	155	60.8	509	359	70.5	499	349	69.9
EMPLOYMENT & TRAINING ADMIN	105	105	100.0	109	109	100.0	99	99	100.0
LABOR-MANAGEMENT SERVICES ADMIN	150	50	33.3	400	250	62.5	400	250	62.5
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	3,125	2,104	67.3	3,947	2,644	67.0	7,090	2,800	39.5
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,180	1,050	89.0	1,558	1,386	89.0	483	430	89.0
FEDERAL TRADE COMMISSION	452	432	95.6	445	410	92.1	337	302	89.6
GENERAL SERVICES ADMINISTRATION	1,312	984	75.0	17	13	76.5	18	14	77.8
LIBRARY OF CONGRESS	130	21	16.2	130	59	45.4	130	59	45.4
NATIONAL AERONAUTICS & SPACE ADMIN	221,459	111,946	50.5	236,893	121,519	51.3	255,155	123,495	48.4
NATIONAL SCIENCE FOUNDATION	76,596	32,742	42.7	86,550	36,272	41.9	90,910	37,000	40.7
SMITHSONIAN INSTITUTION	31,996	22,387	70.0	33,937	25,090	73.9	35,944	26,271	73.1
TENNESSEE VALLEY AUTHORITY	3,764	3,010	80.0	4,028	3,221	80.0	4,271	3,416	80.0
VETERANS ADMINISTRATION	8,647	6,318	73.1	9,116	6,333	69.5	9,846	7,033	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,170,311	1,319,269	60.8%	2,389,502	1,439,169	60.2%	2,511,627	1,499,663	59.7%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	237,414	159,871	67.3	262,766	174,973	66.6	252,422	177,306	70.2
ECON, STAT & COOPERATIVES SERVICE	26,867	17,463	65.0	29,656	19,276	65.0	33,088	21,507	65.0
FOREST SERVICE	65,548	58,200	88.8	69,969	62,041	88.7	65,899	65,701	99.7
SCIENCE & EDUCATION ADMINISTRATION	144,999	84,208	58.1	163,141	93,656	57.4	153,435	90,098	58.7
AGRICULTURAL RESEARCH	142,035	81,244	57.2	159,005	89,520	56.3	149,028	85,691	57.5
COOPERATIVE RESEARCH	2,964	2,964	100.0	4,136	4,136	100.0	4,407	4,407	100.0
DEPARTMENT OF COMMERCE, TOTAL	129,834	71,719	55.2	143,866	77,512	53.9	155,333	81,635	52.6
BUREAU OF THE CENSUS	1,827	1,159	63.4	2,018	1,295	64.2	2,241	1,438	64.2
ECONOMIC DEVELOPMENT ADMINISTRATION	902	90	10.0	575	58	10.1	256	26	10.2
MARITIME ADMINISTRATION	1,054	111	10.5	1,474	147	10.0	1,188	111	9.3
NATIONAL BUREAU OF STANDARDS	39,656	29,550	74.5	42,167	31,400	74.5	45,435	33,000	72.6
NAT'L OCEANIC & ATMOSPHERIC ADMIN	85,310	40,049	46.9	95,140	42,868	45.1	103,153	44,918	43.5
NAT'L TELECOMM & INFORMATION ADMIN	1,085	760	70.0	2,492	1,744	70.0	3,060	2,142	70.0
DEPARTMENT OF DEFENSE, TOTAL	624,934	450,773	72.1	664,507	461,401	69.4	740,827	504,375	68.1
DEPARTMENT OF THE ARMY	254,341	176,639	69.4	262,862	176,611	67.2	276,788	179,862	65.0
DEPARTMENT OF THE NAVY	152,989	112,619	73.6	167,002	113,145	67.8	176,598	119,885	67.9
DEPARTMENT OF THE AIR FORCE	125,990	113,189	89.8	138,581	118,150	85.3	149,363	126,379	84.6
DEFENSE AGENCIES	89,941	47,657	53.0	94,918	53,037	55.9	135,680	77,290	57.0
DEFENSE CIVIL PREPAREDNESS AGENCY	1,673	669	40.0	1,144	458	40.0	2,398	959	40.0
DEPARTMENT OF ENERGY, TOTAL	35,730	11,745	32.9	47,721	21,695	45.5	46,110	20,904	45.3
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	338,252	168,889	49.9	367,874	187,057	50.8	388,043	201,989	52.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	18,722	8,750	46.7	21,227	10,158	47.9	24,753	11,210	45.3
CENTER FOR DISEASE CONTROL	42,618	36,225	85.0	45,662	38,813	85.0	54,111	45,994	85.0
FOOD & DRUG ADMINISTRATION	41,093	25,743	62.6	43,204	28,080	65.0	44,927	28,256	62.9
HEALTH CARE FINANCING ADMIN	5,238	2,514	48.0	8,775	4,212	48.0	13,851	6,648	48.0
HEALTH RESOURCES ADMINISTRATION	200	132	66.0	44	29	65.9	-	-	-
HEALTH SERVICES ADMINISTRATION	3,195	1,763	55.2	3,300	1,658	50.2	3,200	1,774	55.4
HUMAN DEVELOPMENT SERVICES	2,780	1,429	51.4	3,217	1,664	51.7	3,074	1,573	51.2
NATIONAL INSTITUTE OF EDUCATION	2,714	1,695	62.5	3,495	2,268	64.9	3,298	2,364	71.7
NATIONAL INSTITUTES OF HEALTH	201,947	77,192	38.2	217,098	82,406	38.0	217,557	84,092	38.7
OFFICE OF ASST'T SECY FOR EDUC	138	105	76.1	151	116	76.8	248	191	77.0
OFFICE OF ASST'T SECY FOR HEALTH	8,900	5,174	58.1	8,995	5,443	60.5	7,915	5,443	68.8
OFFICE OF EDUCATION	611	484	79.2	1,016	864	85.0	1,570	1,301	82.9
OFFICE OF THE SECRETARY	250	200	80.0	188	150	79.8	191	150	78.5
SOCIAL SECURITY ADMINISTRATION	9,846	7,483	76.0	11,502	11,196	97.3	13,348	12,993	97.3
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	10,901	6,541	60.0	10,618	5,543	52.2	9,022	5,314	58.9
DEPARTMENT OF THE INTERIOR, TOTAL	94,572	65,319	69.1	105,498	73,069	69.3	102,259	68,179	66.7
BUREAU OF LAND MANAGEMENT	467	310	66.4	482	271	56.2	433	355	82.0
BUREAU OF MINES	35,200	28,200	80.1	40,900	32,700	80.0	33,000	26,400	80.0
BUREAU OF RECLAMATION	5,536	3,543	64.0	5,272	3,375	64.0	5,396	3,453	64.0
GEOLOGICAL SURVEY	32,609	17,283	53.0	34,347	17,860	52.0	38,728	18,977	49.0
NATIONAL PARK SERVICE	3,512	2,213	63.0	3,687	2,323	63.0	3,872	2,439	63.0
OFF OF SURFACE MINING RECLAMATION AND ENFORCEMENT	198	30	15.2	200	30	15.0	200	30	15.0
OFFICE OF WATER RSCH & TECHNOLOGY	500	500	100.0	600	500	83.3	600	500	83.3
US FISH & WILDLIFE SERVICE	16,550	13,240	80.0	20,010	16,010	80.0	20,030	16,025	80.0
DEPARTMENT OF JUSTICE, TOTAL	2,187	1,031	47.1	2,351	1,414	60.1	1,773	1,095	61.8
BUREAU OF PRISONS	210	26	12.4	661	88	13.3	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	100	100	100.0	400	400	100.0	200	200	100.0
IMMIGRATION & NATURALIZATION SVC	158	17	10.8	181	181	100.0	50	18	36.0
LAW ENFORCEMENT ASSISTANCE ADMIN	1,638	856	52.3	1,252	901	72.0	1,513	874	57.8
OFFICE OF THE ATTORNEY GENERAL	81	32	39.5	20	7	35.0	10	3	30.0
DEPARTMENT OF LABOR, TOTAL	6,259	4,881	78.0	9,099	7,850	86.3	10,192	8,842	86.8
BUREAU OF LABOR STATISTICS	722	650	90.0	855	770	90.1	807	726	90.0
EMPLOYMENT STANDARDS ADMINISTRATION	3,026	2,776	91.7	5,813	5,060	87.0	7,056	6,199	87.9
EMPLOYMENT & TRAINING ADMIN	1,019	815	80.0	997	824	82.6	894	769	86.0
LABOR-MANAGEMENT SERVICES ADMIN	856	257	30.0	688	450	65.4	689	402	58.3
OCCUPATIONAL SAFETY & HEALTH ADMIN	200	200	100.0	246	246	100.0	246	246	100.0
OFFICE OF THE SECRETARY	436	183	42.0	500	500	100.0	500	500	100.0
DEPARTMENT OF STATE, TOTAL	3,378	3,108	92.0	7,120	6,823	95.8	4,303	4,096	95.2
AGENCY FOR INTERNAT'L DEVELOPMENT	2,990	2,990	100.0	6,690	6,690	100.0	4,015	4,015	100.0
DEPARTMENTAL FUNDS	388	118	30.4	430	133	30.9	288	81	28.1
DEPARTMENT OF TRANSPORTATION, TOTAL	21,790	13,136	60.3	25,491	15,223	59.7	22,334	13,357	59.8
COAST GUARD	701	447	63.8	1,889	1,229	65.1	2,163	1,407	65.0
FEDERAL AVIATION ADMINISTRATION	1,519	835	55.0	2,001	1,101	55.0	1,734	954	55.0
FEDERAL HIGHWAY ADMINISTRATION	1,607	1,285	80.0	1,758	1,405	79.9	1,715	1,370	79.9
FEDERAL RAILROAD ADMINISTRATION	7,165	3,946	55.1	6,619	3,637	54.9	5,840	3,209	54.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,667	5,027	58.0	8,809	5,108	58.0	7,160	4,152	58.0
OFFICE OF THE SECRETARY	1,431	1,151	80.4	1,620	1,229	75.9	1,111	843	75.9
RESEARCH & SPECIAL PROGRAMS ADMIN	100	25	25.0%	2,212	1,106	50.0%	2,028	1,014	50.0%
URBAN MASS TRANSPORTATION ADMIN	600	420	70.0	583	408	70.0	583	408	70.0

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TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF THE TREASURY, TOTAL	3,076	1,749	56.9	2,738	1,741	63.6	2,807	1,809	64.4
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	50	100.0	80	80	100.0	80	80	100.0
BUREAU OF ENGRAVING AND PRINTING ...	1,501	574	38.2	1,383	561	40.6	1,342	619	46.1
CUSTOMS SERVICE	-	-	-	-	-	-	110	10	9.1
INTERNAL REVENUE SERVICE	1,525	1,125	73.8	1,275	1,100	86.3	1,275	1,100	86.3
OTHER AGENCIES									
ACTION	14	14	100.0	-	-	-	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,685	1,008	59.8	1,703	1,043	61.2	1,683	1,095	65.1
APPALACHIAN REGIONAL COMMISSION	17	12	70.6	50	35	70.0	50	35	70.0
CIVIL AERONAUTICS BOARD	711	635	89.3	830	600	72.3	730	545	74.7
COMMUNITY SERVICES ADMINISTRATION	20	18	90.0	10	8	80.0	20	16	80.0
CONSUMER PRODUCT SAFETY COMMISSION ...	414	66	15.9	1,844	276	15.0	890	125	14.0
ENVIRONMENTAL PROTECTION AGENCY	111,509	38,025	34.1	113,453	42,854	37.8	115,120	43,196	37.5
FEDERAL COMMUNICATIONS COMMISSION	1,775	1,775	100.0	1,649	1,649	100.0	1,790	1,790	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,545	1,375	89.0	1,363	1,213	89.0	1,344	1,196	89.0
FEDERAL HOME LOAN BANK BOARD	931	506	54.4	1,092	540	49.5	1,185	558	47.1
FEDERAL TRADE COMMISSION	904	804	88.9	1,076	998	92.8	975	894	91.7
GENERAL SERVICES ADMINISTRATION	37	28	75.7	50	38	76.0	53	40	75.5
INTERNATIONAL COMMUNICATION AGENCY ...	93	71	76.3	63	43	68.3	100	68	68.0
INTERSTATE COMMERCE COMMISSION	250	250	100.0	265	265	100.0	300	300	100.0
LIBRARY OF CONGRESS	370	273	73.8	370	268	72.4	370	268	72.4
NATIONAL AERONAUTICS & SPACE ADMIN ...	423,668	233,802	55.2	472,590	259,280	54.9	500,881	262,416	52.4
NATIONAL SCIENCE FOUNDATION	6,733	3,042	45.2	7,352	3,413	46.4	7,513	3,660	48.7
NUCLEAR REGULATORY COMMISSION	11,222	4,816	42.9	14,304	5,620	39.3	22,470	5,755	25.6
OFFICE OF PERSONNEL MANAGEMENT	987	987	100.0	1,024	1,024	100.0	1,254	1,254	100.0
TENNESSEE VALLEY AUTHORITY	6,009	4,807	80.0	15,210	12,168	80.0	15,589	12,471	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	434	300	69.1	760	400	52.6	600	400	66.7
US INTERNATIONAL TRADE COMMISSION	3,119	2,495	80.0	3,285	2,628	80.0	3,648	2,918	80.0
VETERANS ADMINISTRATION	89,537	65,398	73.0	101,510	70,505	69.5	99,637	71,162	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	3,665,119	2,052,815	56.0%	3,975,448	2,225,819	56.0%	4,033,264	2,250,827	55.8%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	19,768	12,875	65.1	25,262	15,941	63.1	23,091	15,368	66.6
FOREST SERVICE	4,964	4,407	88.8	5,293	4,698	88.8	4,954	4,939	99.7
SCIENCE & EDUCATION ADMINISTRATION	14,804	8,468	57.2	19,969	11,243	56.3	18,137	10,429	57.5
AGRICULTURAL RESEARCH	14,804	8,468	57.2	19,969	11,243	56.3	18,137	10,429	57.5
DEPARTMENT OF COMMERCE, TOTAL	32,170	19,771	61.5	39,680	20,722	52.2	38,890	23,440	60.3
BUREAU OF THE CENSUS	1,107	670	60.5	1,111	620	55.8	1,467	819	55.8
ECONOMIC DEVELOPMENT ADMINISTRATION	652	65	10.0	1,035	104	10.0	855	86	10.1
MARITIME ADMINISTRATION	613	71	11.6	1,157	75	6.5	954	75	7.9
NATIONAL BUREAU OF STANDARDS	9,376	7,181	76.6	11,253	8,300	73.8	10,896	8,000	73.4
NAT'L OCEANIC & ATMOSPHERIC ADMIN	19,183	10,845	56.5	22,944	10,025	43.7	22,157	12,594	56.8
NAT'L TELECOMM & INFORMATION ADMIN	723	506	70.0	1,662	1,163	70.0	2,040	1,428	70.0
PATENT AND TRADEMARK OFFICE	516	433	83.9	518	435	84.0	521	438	84.1
DEPARTMENT OF DEFENSE, TOTAL	2,563,065	1,456,848	56.8	2,806,398	1,542,531	55.0	2,896,714	1,618,009	55.9
DEPARTMENT OF THE ARMY	648,092	320,468	49.4	771,286	371,800	48.2	823,994	398,249	48.3
DEPARTMENT OF THE NAVY	933,492	523,345	56.1	997,040	525,794	52.7	1,012,446	557,112	55.0
DEPARTMENT OF THE AIR FORCE	848,197	555,329	65.5	869,426	570,135	65.6	878,236	582,847	66.4
DEFENSE AGENCIES	109,657	57,106	52.1	147,680	74,002	50.1	156,420	78,951	50.5
DIRECTOR OF TEST & EVALUATION, DEFENSE	23,627	600	2.5	20,966	800	3.8	25,618	850	3.3
DEPARTMENT OF ENERGY, TOTAL	274,765	92,237	33.6	299,217	144,780	48.4	274,765	92,237	33.6
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	63,060	35,058	55.6	69,147	38,834	56.2	66,747	38,810	58.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMINISTRATION	164	164	100.0	135	135	100.0	257	257	100.0
HEALTH RESOURCES ADMINISTRATION	1	1	100.1	1	1	100.1	1	1	100.1
HEALTH SERVICES ADMINISTRATION	987	786	79.6	987	787	79.7	800	700	87.5
HUMAN DEVELOPMENT SERVICES	2,400	1,013	42.2	3,523	1,330	37.8	3,371	1,332	39.5
NATIONAL INSTITUTE OF EDUCATION	9,578	5,695	59.5	8,386	5,444	64.9	7,871	5,641	71.7
NATIONAL INSTITUTES OF HEALTH	47,395	25,581	54.0	53,377	29,047	54.4	52,183	29,202	56.0
OFFICE OF ASST'T SECY FOR HEALTH	1,335	871	65.2	1,352	909	67.2	1,217	825	67.8
OFFICE OF EDUCATION	1,200	947	78.9	1,386	1,181	85.2	1,047	852	81.4
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	14,029	5,569	39.7	13,653	4,793	35.1	13,443	4,961	36.9
DEPARTMENT OF THE INTERIOR, TOTAL	15,982	12,302	77.0	14,855	11,554	77.8	13,743	10,840	78.9
BUREAU OF LAND MANAGEMENT	106	74	69.8	141	94	66.7	77	30	39.0
BUREAU OF MINES	9,068	7,000	77.2	6,891	5,400	78.4	5,526	4,400	79.6
BUREAU OF RECLAMATION	608	368	60.5	523	320	61.2	640	390	60.9
OFFICE OF WATER RSCH & TECHNOLOGY	500	300	60.0	500	300	60.0	600	500	83.3
US FISH & WILDLIFE SERVICE	5,700	4,560	80.0	6,800	5,440	80.0	6,900	5,520	80.0
DEPARTMENT OF JUSTICE, TOTAL	2,992	1,499	50.1	3,164	1,971	62.3	2,770	1,814	65.5
BUREAU OF PRISONS	1,700	681	40.1	1,327	618	46.6	829	552	66.6
DRUG ENFORCEMENT ADMINISTRATION	400	400	100.0	1,000	1,000	100.0	800	800	100.0
FEDERAL BUREAU OF INVESTIGATION	275	275	100.0	225	225	100.0	215	215	100.0
IMMIGRATION & NATURALIZATION SVC	158	18	11.4	160	19	11.9	150	18	12.0
LAW ENFORCEMENT ASSISTANCE ADMIN	449	120	26.7	450	108	24.0	774	228	29.5
OFFICE OF THE ATTORNEY GENERAL	10	5	50.0	2	1	50.1	2	1	50.1
DEPARTMENT OF LABOR, TOTAL	2,472	2,159	87.3	2,118	1,838	86.8	1,846	1,631	88.4
BUREAU OF LABOR STATISTICS	456	410	89.9	-	-	*	-	-	-
EMPLOYMENT & TRAINING ADMIN	2,016	1,749	86.8	2,118	1,838	86.8	1,846	1,631	88.4
DEPARTMENT OF STATE, TOTAL	988	349	35.3	1,115	1,018	91.3	795	763	96.0
AGENCY FOR INTERNAT'L DEVELOPMENT	978	342	35.0	1,075	1,000	93.0	755	745	98.7
DEPARTMENTAL FUNDS	10	7	70.0	40	18	45.0	40	18	45.0
DEPARTMENT OF TRANSPORTATION, TOTAL	87,514	48,727	55.7	90,193	53,424	59.2	84,503	50,099	59.3
COAST GUARD	4,794	1,675	34.9	3,097	1,084	35.0	2,982	1,044	35.0
FEDERAL AVIATION ADMINISTRATION	25,243	13,885	55.0	27,364	15,051	55.0	24,205	13,313	55.0
FEDERAL HIGHWAY ADMINISTRATION	10,953	9,310	85.0	11,425	9,710	85.0	11,745	9,980	85.0
FEDERAL RAILROAD ADMINISTRATION	12,445	3,108	25.0	11,460	6,297	54.9	10,193	5,601	54.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	2,335	1,287	55.1	2,598	1,421	54.7	3,020	1,652	54.7
OFFICE OF THE SECRETARY	14,324	10,800	75.4	11,707	8,830	75.4	10,057	7,585	75.4
RESEARCH & SPECIAL PROGRAMS ADMIN	178	44	24.7	4,883	2,199	45.0	4,614	2,078	45.0
URBAN MASS TRANSPORTATION ADMIN	17,242	8,618	50.0	17,659	8,832	50.0	17,687	8,846	50.0

CONTINUED ON NEXT PAGE

TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1978, 1979, AND 1980

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1978			ESTIMATES					
				1979			1980		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF THE TREASURY, TOTAL	2,214	1,043	47.1	2,246	1,147	51.1	2,572	1,230	47.8
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	24	24	100.0	72	72	100.0	99	99	100.0
BUREAU OF ENGRAVING AND PRINTING ...	1,446	511	35.3	1,265	551	43.6	1,205	501	41.6
CUSTOMS SERVICE	344	133	38.7	409	124	30.3	768	230	29.9
INTERNAL REVENUE SERVICE	400	375	93.8	500	400	80.0	500	400	80.0
OTHER AGENCIES									
ACTION	102	87	85.3	114	114	100.0	135	135	100.0
APPALACHIAN REGIONAL COMMISSION	10	8	80.0	10	8	80.0	10	8	80.0
COMMUNITY SERVICES ADMINISTRATION	1,500	1,500	100.0	1,500	1,500	100.0	1,500	1,500	100.0
CONSUMER PRODUCT SAFETY COMMISSION ...	1,958	123	6.3	3,432	515	15.0	2,490	348	14.0
ENVIRONMENTAL PROTECTION AGENCY	44,665	14,193	31.8	44,675	15,722	35.2	39,931	14,844	37.2
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,203	428	35.6	1,792	580	32.4	1,747	638	36.5
GENERAL SERVICES ADMINISTRATION	76	57	75.0	82	62	75.6	24	18	75.0
INTERNATIONAL COMMUNICATION AGENCY ...	12	10	83.3	8	3	37.5	-	-	-
LIBRARY OF CONGRESS	4,017	3,184	79.3	4,100	3,405	83.0	4,300	3,405	79.2
NATIONAL AERONAUTICS & SPACE ADMIN ...	510,523	327,945	64.2	513,445	335,406	65.3	518,665	336,331	64.8
NATIONAL SCIENCE FOUNDATION	26	3	11.5	40	4	10.0	60	6	10.0
OFFICE OF PERSONNEL MANAGEMENT	987	987	100.0	1,024	1,024	100.0	1,254	1,254	100.0
TENNESSEE VALLEY AUTHORITY	7,296	5,835	80.0	22,807	18,246	80.0	26,187	20,949	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	10	6	60.0	60	40	66.7	150	100	66.7
VETERANS ADMINISTRATION	13,715	10,012	73.0	15,311	10,637	69.5	16,932	12,089	71.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-108. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	15,735.8	15,973.2	16,728.9	17,489.1	18,302.2	19,557.9	21,030.6	23,390.6	25,705.0	29,005.1	31,072.3
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	298.6	318.9	357.9	357.1	381.5	425.6	468.8	537.8	572.4	647.0	640.3
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.8	39.7
ECONOMIC RESEARCH SVC	15.8	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A
FOREST SERVICE	45.8	50.2	56.5	58.3	65.6	72.5	90.3	92.5	86.7	111.3	106.9
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	414.7	453.3	499.9	493.7
AGRICULTURAL RESEARCH	172.6	182.8	208.7	199.3	210.5	232.8	247.4	294.6	318.4	342.5	336.5
COOPERATIVE RESEARCH	62.5	69.1	73.7	82.1	85.2	95.6	104.2	120.2	134.9	157.4	157.1
TECHNICAL INFO SYSTEMS	.3	.4	.3	.3	.2	.1	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	127.9	122.9	168.2	186.2	188.2	224.6	233.3	238.2	272.7	303.8	327.4
NATIONAL BUREAU OF STANDARDS	31.3	33.5	34.7	36.8	42.5	47.2	49.1	53.1	59.0	62.4	74.8
NAT'L OCEANIC & ATMOS ADMIN	72.3	68.4	109.7	114.4	109.5	127.7	134.5	132.6	164.7	183.3	199.2
OTHER COMMERCE	24.4	21.0	23.8	34.9	36.3	49.7	49.8	52.5	48.9	58.0	53.4
DEPARTMENT OF DEFENSE, TOTAL	7,587.9	7,706.0	8,297.2	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	12,271.4	13,462.5
DEPARTMENT OF THE ARMY	1,771.6	1,670.6	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,629.1	2,942.4
DEPARTMENT OF THE NAVY	2,172.4	2,477.9	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	4,328.5	4,546.5
DEPARTMENT OF THE AIR FORCE	3,150.1	3,025.6	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,574.9	5,131.1
DEFENSE AGENCIES	488.0	527.5	475.7	461.3	485.2	556.9	507.5	610.5	555.1	713.5	808.7
DEFENSE CIVIL PREPAREDNESS AGENCY	5.9	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	4.4	6.8
DIRECTOR OF TEST & EVALUATION	N/A	N/A	N/A	3.4	25.5	26.8	20.9	16.5	23.9	21.0	27.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,593.1	4,413.0	5,286.2	5,525.3
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,261.3	1,326.8	1,554.5	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	3,303.6	3,657.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	198.7	229.1
HLTH SVCS & MENTAL HLTH ADMIN	180.5	195.5	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	35.8	96.9	82.8	69.8	59.7	74.8	86.5	89.4
NATIONAL INSTITUTES OF HEALTH	917.7	946.0	1,112.1	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	2,683.9	2,965.2
OFFICE OF EDUCATION	94.6	114.8	108.0	102.2	66.3	53.1	56.8	30.3	25.8	31.4	37.7
OTHER HEW	68.5	70.5	97.5	254.1	234.6	233.8	225.0	260.1	282.6	303.1	336.2
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	15.3	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	63.2	64.9
DEPT OF THE INTERIOR, TOTAL	159.8	185.1	214.5	254.1	199.6	272.7	329.1	314.9	365.3	422.4	404.2
BUREAU OF MINES	37.3	50.0	66.2	68.6	66.7	82.7	113.7	103.7	104.2	132.0	108.5
GEOLOGICAL SURVEY	40.8	44.1	51.7	62.7	73.4	101.9	125.0	123.2	154.1	165.2	170.9
OTHER INTERIOR	81.8	91.0	96.6	122.8	59.4	88.1	90.4	88.1	107.0	125.2	124.8
DEPARTMENT OF JUSTICE, TOTAL	3.6	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	47.2	43.2
LAW ENFORCEMENT ASSIST ADMIN	2.5	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	34.4
OTHER JUSTICE	1.2	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	11.7	8.8
DEPARTMENT OF LABOR, TOTAL	19.8	22.1	23.0	18.3	22.5	25.4	27.8	28.1	97.6	103.6	86.5
DEPARTMENT OF STATE, TOTAL	21.5	29.5	21.7	20.8	24.8	28.6	27.0	44.1	57.5	77.5	75.4
AGENCY FOR INTERNAT'L DEVMNT	21.0	29.1	21.2	19.3	23.2	27.4	25.4	41.8	54.6	74.5	73.2
OTHER STATE	.5	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.0	2.2
DEPT OF TRANSPORTATION, TOTAL	262.6	477.8	287.0	337.3	363.7	339.2	335.7	363.5	377.3	402.4	390.2
FEDERAL AVIATION ADMIN	53.9	340.1	107.1	88.6	115.8	113.7	114.6	102.8	100.2	118.4	107.4
FEDERAL HIGHWAY ADMIN	32.5	28.5	23.3	23.5	33.5	26.8	42.9	53.0	52.9	55.8	60.3
FEDERAL RAILROAD ADMIN	11.4	25.6	22.5	41.4	38.3	51.1	48.5	57.3	62.4	55.4	52.9
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19.5	22.9	34.8	47.6	44.4	36.2	33.8	49.5	68.5	65.7	63.9
URBAN MASS TRANS ADMIN	9.5	19.1	60.8	72.2	57.8	60.9	48.2	52.1	52.5	58.6	58.4
OTHER TRANSPORTATION	135.8	41.7	38.6	63.9	73.9	50.6	47.7	48.8	40.8	48.5	47.3
DEPT OF THE TREASURY, TOTAL	.6	.8	1.3	1.0	1.1	1.7	3.8	5.0	9.9	11.5	12.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,616.0	1,604.9	1,551.3	1,624.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	70.2	101.0	133.8	147.7	172.2	218.6	265.6	283.0	312.5	376.2	403.6
NAT'L AERONAUTICS & SPACE ADMIN	3,753.1	3,381.9	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,945.3	3,983.1	4,404.1	4,595.0
NATIONAL SCIENCE FOUNDATION	324.1	373.9	435.0	470.9	584.7	600.4	669.1	674.7	738.6	808.8	878.0
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	46.1	58.5	76.9	107.8	131.7	150.6	173.6
OFFICE OF ECONOMIC OPPORTUNITY	79.3	129.5	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	61.7	67.9	76.1	82.8	85.7	97.0	109.5	112.8	123.9	131.0	130.8
ALL OTHER AGENCIES	72.3	74.0	41.4	50.4	111.7	118.3	100.5	109.5	151.2	194.6	201.0

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-109. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	15,157.0	15,360.5	16,164.5	16,851.0	17,598.0	18,728.3	20,230.0	22,590.4	24,597.2	27,663.0	29,604.8
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	285.0	311.3	348.1	348.5	375.6	417.7	460.0	515.3	553.8	619.7	603.6
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.8	39.7
ECONOMIC RESEARCH SVC	15.8	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A
FOREST SERVICE	44.9	49.1	55.2	54.7	63.3	68.6	86.9	89.0	84.6	107.8	106.9
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	395.7	436.8	476.1	457.2
AGRICULTURAL RESEARCH	161.3	177.7	200.9	194.7	207.1	228.8	242.0	275.6	301.9	318.7	300.1
COOPERATIVE RESEARCH	61.1	67.8	73.1	81.8	85.0	95.5	104.2	120.1	134.9	157.4	157.1
TECHNICAL INFO SYSTEMS	.3	.4	.3	.3	.2	.1	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	122.9	118.2	164.1	180.4	176.3	214.1	225.5	232.5	269.2	302.8	325.7
NATIONAL BUREAU OF STANDARDS	29.1	31.8	33.7	35.6	40.7	45.3	48.0	52.6	58.1	61.8	73.6
NAT'L OCEANIC & ATMOS ADMIN	69.4	65.4	107.0	110.9	101.6	119.8	129.4	131.2	162.5	183.3	199.2
OTHER COMMERCE	24.4	21.0	23.5	33.9	34.0	49.0	48.1	48.8	48.6	57.7	53.0
DEPARTMENT OF DEFENSE, TOTAL	7,447.1	7,561.5	8,138.8	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	12,056.9	13,250.2
DEPARTMENT OF THE ARMY	1,753.5	1,637.9	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,621.7	2,934.8
DEPARTMENT OF THE NAVY	2,150.8	2,449.4	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,519.0	3,870.3	4,260.4	4,465.8
DEPARTMENT OF THE AIR FORCE	3,088.5	2,975.9	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,450.7	5,021.0
DEFENSE AGENCIES	448.4	493.8	450.7	438.3	467.4	536.2	500.3	603.3	548.5	700.7	794.8
DEFENSE CIVIL PREPAREDNESS AGENCY	5.9	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	4.4	6.8
DIRECTOR OF TEST & EVALUATION	N/A	N/A	N/A	3.4	25.5	26.8	20.9	16.5	23.9	21.0	27.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,166.0	3,931.7	4,539.1	4,646.1
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,217.9	1,282.5	1,516.7	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	3,219.9	3,569.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	198.6	228.9
HLTH SVCS & MENTAL HLTH ADMIN	180.2	195.0	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	35.8	96.9	82.8	69.8	59.7	74.8	86.5	89.4
NATIONAL INSTITUTES OF HEALTH	876.6	905.8	1,087.4	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	2,603.4	2,879.5
OFFICE OF EDUCATION	92.7	111.2	94.9	94.0	62.8	53.1	56.8	30.3	25.8	31.4	37.7
OTHER HEW	68.5	70.5	97.5	240.0	232.8	229.5	224.5	255.8	281.4	300.0	334.2
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	15.3	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	63.2	64.9
DEPT OF THE INTERIOR, TOTAL	151.6	178.1	209.8	237.8	198.0	270.3	328.3	310.5	357.6	415.2	398.6
BUREAU OF MINES	37.3	50.0	66.2	68.6	66.7	82.7	113.7	100.7	104.1	128.7	104.5
GEOLOGICAL SURVEY	40.8	44.1	51.7	62.5	73.4	101.9	125.0	123.2	154.1	165.2	170.9
OTHER INTERIOR	73.5	84.1	91.9	106.8	57.9	85.7	89.6	86.6	99.4	121.3	123.2
DEPARTMENT OF JUSTICE, TOTAL	3.6	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	47.2	43.2
LAW ENFORCEMENT ASSIST ADMIN	2.5	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	35.5	34.4
OTHER JUSTICE	1.2	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	11.7	8.8
DEPARTMENT OF LABOR, TOTAL	19.8	22.1	23.0	18.3	22.5	25.4	27.8	28.1	97.6	103.6	86.5
DEPARTMENT OF STATE, TOTAL	21.4	28.5	18.4	20.2	24.5	28.4	25.9	40.1	57.4	73.9	74.3
AGENCY FOR INTERNAT'L DEVMNT	20.9	28.2	17.9	18.7	23.0	27.1	24.3	37.8	54.5	71.0	72.2
OTHER STATE	.5	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.0	2.2
DEPT OF TRANSPORTATION, TOTAL	258.9	468.2	273.7	312.3	328.4	324.5	323.6	346.0	364.1	380.5	371.5
FEDERAL AVIATION ADMIN	53.7	339.3	106.1	88.1	115.2	110.9	112.7	99.8	99.2	109.8	102.6
FEDERAL HIGHWAY ADMIN	32.4	28.3	22.8	23.4	33.1	26.4	42.5	52.6	52.5	54.5	57.9
FEDERAL RAILROAD ADMIN	8.4	21.0	16.7	31.8	34.4	42.0	40.5	45.6	51.5	44.3	42.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19.5	22.9	34.8	47.6	44.4	36.2	33.8	49.3	68.3	65.5	63.7
URBAN MASS TRANS ADMIN	9.5	16.6	56.9	69.0	54.1	59.1	46.9	50.4	52.5	58.6	58.4
OTHER TRANSPORTATION	135.4	40.0	36.4	52.4	47.1	50.0	47.2	48.3	40.1	47.8	46.5
DEPT OF THE TREASURY, TOTAL	.6	.8	1.3	1.0	1.1	1.7	3.7	4.9	9.9	11.4	12.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,346.0	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	68.1	100.6	133.1	144.7	161.3	207.2	259.0	281.3	310.3	373.7	400.9
NAT'L AERONAUTICS & SPACE ADMIN	3,696.5	3,337.8	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,840.3	3,858.9	4,250.6	4,439.8
NATIONAL SCIENCE FOUNDATION	292.9	334.7	417.5	427.8	570.7	571.3	619.0	649.6	700.5	772.7	856.3
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	42.3	55.8	73.3	101.7	125.4	142.1	165.4
OFFICE OF ECONOMIC OPPORTUNITY	79.3	129.5	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	58.0	60.8	66.5	75.0	80.4	94.8	97.7	106.9	114.3	127.3	126.5
ALL OTHER AGENCIES	72.0	72.7	40.1	48.2	105.9	105.2	84.5	105.5	128.9	161.3	168.5

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-110. FEDERAL OUTLAYS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	578.9	612.7	564.4	638.0	704.2	829.7	800.6	800.2	1,107.8	1,342.0	1,467.5
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	13.6	7.6	9.7	8.6	5.9	7.9	8.8	22.5	18.6	27.4	36.5
DEPARTMENT OF COMMERCE, TOTAL	5.1	4.7	4.1	5.8	11.9	10.5	7.8	5.7	3.5	.9	1.6
DEPARTMENT OF DEFENSE, TOTAL	140.8	144.5	158.4	157.0	164.9	152.9	144.2	125.6	312.6	212.5	212.3
DEPARTMENT OF THE ARMY	18.2	32.7	30.4	46.0	31.4	30.0	20.6	14.8	6.8	7.4	7.6
DEPARTMENT OF THE NAVY	21.6	28.4	39.4	32.5	47.5	47.8	59.3	63.6	49.1	68.1	80.7
DEPARTMENT OF THE AIR FORCE	61.5	49.7	63.6	55.4	68.2	54.5	57.1	40.0	250.1	124.2	110.1
DEFENSE AGENCIES	39.6	33.7	25.0	23.0	17.7	20.6	7.2	7.2	6.6	12.8	13.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	427.1	481.3	747.1	879.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	43.3	44.3	37.8	62.7	33.3	85.9	52.4	45.6	68.0	83.7	88.0
DEPT OF THE INTERIOR, TOTAL	8.3	7.0	4.7	16.3	1.6	2.4	.8	4.4	7.7	7.3	5.6
DEPARTMENT OF STATE, TOTAL	.1	1.0	3.3	.6	.2	.3	1.2	4.0	.1	3.6	1.0
DEPT OF TRANSPORTATION, TOTAL	3.7	9.6	13.3	25.0	35.4	14.7	12.1	17.5	13.2	21.9	18.7
DEPT OF THE TREASURY, TOTAL	*	*	*	*	*	*	.1	.1	*	*	*
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	270.0	302.0	253.6	261.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	336.1	411.2	364.2	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	2.1	.4	.7	3.0	10.9	11.3	6.7	1.6	2.2	2.6	2.7
NAT'L AERONAUTICS & SPACE ADMIN	56.6	44.1	50.3	44.7	75.1	85.3	120.9	105.0	124.3	153.5	155.2
NATIONAL SCIENCE FOUNDATION	31.2	39.2	17.5	43.1	14.0	29.1	50.1	25.1	38.0	36.1	21.7
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	3.8	2.6	3.5	6.1	6.2	8.6	8.2
VETERANS ADMINISTRATION	3.7	7.0	9.6	7.8	5.3	2.2	11.8	5.9	9.7	3.7	4.2
ALL OTHER AGENCIES	.3	1.3	1.3	2.3	5.8	13.2	16.0	4.0	22.3	33.3	32.5

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-111. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	15,864.8	16,156.2	17,099.8	17,574.4	18,181.0	19,867.8	21,625.7	25,362.2	27,710.0	31,007.7	32,228.3
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	286.4	310.0	357.4	369.4	387.5	427.9	478.6	559.9	645.9	693.7	691.9
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.9	39.8
ECONOMIC RESEARCH SVC	14.9	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A
FOREST SERVICE	43.7	47.1	58.7	59.6	69.6	81.5	82.8	92.1	108.3	116.1	105.4
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	437.3	505.0	541.6	546.7
AGRICULTURAL RESEARCH	164.0	177.5	198.0	201.2	208.3	221.6	255.3	310.1	347.5	367.7	368.9
COOPERATIVE RESEARCH	62.1	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	173.9	177.8
TECHNICAL INFO SYSTEMS	.2	.4	.2	.3	.1	*	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	125.5	152.9	194.7	198.5	192.2	224.9	235.5	251.8	287.7	321.0	322.5
NATIONAL BUREAU OF STANDARDS	30.8	33.8	36.6	38.9	41.1	44.6	47.9	53.9	59.1	71.8	73.6
NAT'L OCEANIC & ATMOS ADMIN	66.4	83.4	120.1	119.3	117.0	135.1	139.1	147.2	163.7	179.6	190.0
OTHER COMMERCE	28.3	35.8	38.0	40.2	34.1	45.3	48.5	50.7	64.9	69.7	58.9
DEPARTMENT OF DEFENSE, TOTAL	7,500.9	7,662.7	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	13,165.8	14,140.3
DEPARTMENT OF THE ARMY	1,687.0	1,726.0	2,103.7	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,783.1	3,063.9
DEPARTMENT OF THE NAVY	2,276.1	2,311.7	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,689.4	4,610.2
DEPARTMENT OF THE AIR FORCE	3,049.1	3,163.2	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,739.1	5,345.9
DEFENSE AGENCIES	484.6	458.8	500.4	457.1	464.1	497.4	573.9	659.5	724.5	924.3	1,079.3
DEFENSE CIVIL PREPAREDNESS AGENCY	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	5.2	10.9
DIRECTOR OF TEST & EVALUATION	N/A	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	24.6	30.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,594.0	5,572.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,252.2	1,493.4	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	3,725.5	3,757.5
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	218.5	260.1
HLTH SVCS & MENTAL HLTH ADMIN	188.4	223.5	249.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	106.8	75.7	69.9	63.7	64.9	89.5	92.5	98.3
NATIONAL INSTITUTES OF HEALTH	893.2	1,055.3	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	3,016.8	2,992.4
OFFICE OF EDUCATION	99.5	132.8	130.2	58.3	51.5	45.9	58.2	31.1	32.9	40.4	27.7
OTHER HEW	71.1	81.8	105.0	236.4	270.9	263.1	262.8	295.3	324.7	357.2	379.0
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	29.9	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.8	64.1
DEPT OF THE INTERIOR, TOTAL	168.5	202.2	234.1	265.5	198.7	315.0	347.9	331.1	400.2	441.1	418.5
BUREAU OF MINES	46.5	60.3	70.9	77.5	66.1	107.6	131.3	105.3	121.1	133.3	107.1
GEOLOGICAL SURVEY	41.0	44.1	53.2	67.0	70.8	114.5	119.2	128.9	159.9	174.0	178.2
OTHER INTERIOR	81.1	97.8	110.0	121.0	61.8	93.0	97.5	96.8	119.3	133.7	133.2
DEPARTMENT OF JUSTICE, TOTAL	8.6	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	45.3	37.3
LAW ENFORCEMENT ASSIST ADMIN	7.4	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	34.2	28.4
OTHER JUSTICE	1.2	2.8	2.4	2.8	7.4	3.4	4.6	5.8	9.3	11.1	8.9
DEPARTMENT OF LABOR, TOTAL	20.6	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	103.9	86.8
DEPARTMENT OF STATE, TOTAL	27.6	39.0	29.2	26.6	22.9	27.9	44.5	77.6	85.4	110.8	108.1
AGENCY FOR INTERNAT'L DEVMNT	27.3	38.6	28.6	25.1	21.4	26.7	42.9	75.3	82.6	107.8	105.9
OTHER STATE	.3	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.0	2.2
DEPT OF TRANSPORTATION, TOTAL	333.3	508.0	336.3	348.9	383.2	324.8	308.7	377.1	422.4	441.9	420.2
FEDERAL AVIATION ADMIN	56.3	347.4	102.4	81.0	125.4	109.0	100.1	106.4	111.5	130.6	112.4
FEDERAL HIGHWAY ADMIN	32.9	27.1	20.8	23.7	41.2	45.1	29.3	55.9	52.1	57.7	65.3
FEDERAL RAILROAD ADMIN	16.4	25.3	36.6	46.9	37.4	39.4	60.5	58.5	65.7	62.3	56.5
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19.5	26.7	50.0	54.6	53.6	34.0	31.4	47.2	66.5	70.3	68.4
URBAN MASS TRANS ADMIN	20.0	43.0	63.9	74.4	69.2	49.4	48.8	61.6	69.6	66.0	66.1
OTHER TRANSPORTATION	188.1	38.4	62.5	68.3	56.4	47.8	38.6	47.5	57.0	55.0	51.5
DEPT OF THE TREASURY, TOTAL	.6	.8	1.3	1.0	1.1	1.7	3.8	4.9	9.9	11.5	12.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,611.9	1,615.2	1,544.4	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	90.5	137.8	123.0	205.1	170.5	259.7	265.4	297.6	389.3	402.8	437.1
NAT'L AERONAUTICS & SPACE ADMIN	3,833.4	3,298.2	3,202.5	3,130.2	3,100.5	3,207.1	3,529.0	3,821.5	4,037.8	4,539.8	4,697.6
NATIONAL SCIENCE FOUNDATION	312.3	364.8	473.5	537.0	568.1	618.1	661.8	724.1	788.5	856.5	933.6
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	46.1	67.2	98.1	119.4	140.8	160.3	185.6
OFFICE OF ECONOMIC OPPORTUNITY	123.4	134.0	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	61.2	77.9	71.3	84.6	86.9	97.0	109.5	112.9	118.1	135.7	135.6
ALL OTHER AGENCIES	77.9	78.5	45.0	67.0	97.9	108.8	95.4	112.9	152.3	190.5	206.8

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-112. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	15,340.3	15,545.0	16,497.8	16,800.1	17,414.7	19,047.1	20,788.9	23,995.0	26,414.3	29,576.0	30,732.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	281.2	304.9	349.6	366.5	378.7	420.1	462.4	547.0	621.3	666.9	663.7
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.9	39.8
ECONOMIC RESEARCH SVC	14.9	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A
FOREST SERVICE	42.8	46.0	55.2	58.4	65.5	78.2	79.9	90.3	105.6	112.6	105.4
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	426.2	483.0	518.4	518.5
AGRICULTURAL RESEARCH	160.6	173.5	193.8	199.5	203.5	217.1	242.1	298.9	325.5	344.5	340.7
COOPERATIVE RESEARCH	61.1	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	173.9	177.8
TECHNICAL INFO SYSTEMS	.2	.4	.2	.3	.1	*	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	121.6	143.7	187.3	190.6	180.6	215.4	228.9	244.7	283.7	319.1	321.9
NATIONAL BUREAU OF STANDARDS	29.6	32.6	34.7	36.8	40.2	43.2	47.4	53.2	58.3	70.2	73.4
NAT'L OCEANIC & ATMOS ADMIN	63.8	79.0	115.2	115.6	109.1	128.0	135.1	145.7	161.5	179.6	190.0
OTHER COMMERCE	28.3	32.2	37.4	38.1	31.3	44.2	46.3	45.8	63.9	69.4	58.5
DEPARTMENT OF DEFENSE, TOTAL	7,360.4	7,509.0	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	13,001.5	13,879.7
DEPARTMENT OF THE ARMY	1,659.8	1,682.4	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,775.6	3,044.8
DEPARTMENT OF THE NAVY	2,257.9	2,283.7	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,618.2	4,527.9
DEPARTMENT OF THE AIR FORCE	2,990.0	3,113.5	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,679.1	5,220.9
DEFENSE AGENCIES	448.6	426.5	476.4	434.1	448.9	476.5	561.6	641.4	707.9	898.7	1,045.1
DEFENSE CIVIL PREPAREDNESS AGENCY	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	5.2	10.9
DIRECTOR OF TEST & EVALUATION	N/A	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	24.6	30.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,688.5	4,658.8
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,221.0	1,476.1	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	3,665.4	3,725.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	218.2	260.1
HLTH SVCS & MENTAL HLTH ADMIN	188.4	222.9	244.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	106.8	75.7	69.9	63.7	64.9	89.5	92.5	98.3
NATIONAL INSTITUTES OF HEALTH	873.3	1,039.0	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	2,960.6	2,961.4
OFFICE OF EDUCATION	88.2	132.4	130.1	58.3	51.5	45.9	58.2	31.1	32.9	40.4	27.7
OTHER HEW	71.1	81.8	105.0	236.1	270.5	262.4	261.9	294.5	323.8	353.7	378.3
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	29.9	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.8	64.1
DEPT OF THE INTERIOR, TOTAL	157.9	193.7	220.3	243.4	196.6	311.2	342.0	326.1	385.2	435.0	417.3
BUREAU OF MINES	46.5	60.3	70.9	77.5	66.1	107.6	131.3	101.9	114.0	131.2	107.1
GEOLOGICAL SURVEY	41.0	44.1	53.1	66.3	70.4	114.5	119.2	128.9	159.9	174.0	178.2
OTHER INTERIOR	70.5	89.3	96.3	99.6	60.1	89.1	91.6	95.3	111.4	129.8	132.0
DEPARTMENT OF JUSTICE, TOTAL	8.6	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	45.3	37.3
LAW ENFORCEMENT ASSIST ADMIN	7.4	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	34.2	28.4
OTHER JUSTICE	1.2	2.8	2.4	2.8	7.4	3.4	4.6	5.8	9.3	11.1	8.9
DEPARTMENT OF LABOR, TOTAL	20.6	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	103.9	86.8
DEPARTMENT OF STATE, TOTAL	27.6	30.1	26.6	26.2	22.5	27.9	39.4	61.4	85.2	105.6	106.6
AGENCY FOR INTERNAT'L DEVMNT	27.3	29.7	26.0	24.7	21.1	26.7	37.8	59.1	82.4	102.7	104.4
OTHER STATE	.3	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.0	2.2
DEPT OF TRANSPORTATION, TOTAL	327.8	497.2	310.5	310.6	369.8	311.6	294.5	354.6	408.3	418.2	395.1
FEDERAL AVIATION ADMIN	56.1	346.3	100.9	79.5	125.0	105.6	98.1	103.4	110.5	121.6	107.4
FEDERAL HIGHWAY ADMIN	32.8	26.8	20.7	23.6	40.8	44.7	28.9	55.5	51.7	56.4	58.3
FEDERAL RAILROAD ADMIN	11.5	21.6	26.3	35.5	33.5	32.4	50.4	41.9	53.9	49.8	44.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	19.5	26.7	50.0	54.6	53.6	34.0	31.4	47.0	66.3	70.1	68.2
URBAN MASS TRANS ADMIN	20.0	39.0	58.8	66.2	65.6	47.7	47.5	59.9	69.6	66.0	66.1
OTHER TRANSPORTATION	187.9	36.8	53.9	51.3	51.3	47.2	38.2	46.9	56.3	54.3	50.7
DEPT OF THE TREASURY, TOTAL	.6	.8	1.3	1.0	1.1	1.7	3.7	4.8	9.9	11.4	12.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,346.0	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	88.5	136.7	122.4	180.6	169.2	257.7	259.1	295.5	384.6	400.4	435.6
NAT'L AERONAUTICS & SPACE ADMIN	3,799.9	3,257.9	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,703.4	3,875.4	4,392.3	4,540.0
NATIONAL SCIENCE FOUNDATION	289.0	336.9	454.8	479.9	556.4	595.0	609.3	697.0	748.8	818.9	910.1
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	151.6	176.3
OFFICE OF ECONOMIC OPPORTUNITY	123.4	134.0	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	58.6	62.9	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.3	126.5
ALL OTHER AGENCIES	77.8	77.3	43.5	62.3	87.8	94.3	84.6	109.0	129.8	156.9	174.5

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-113. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	524.4	611.2	602.1	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,431.8	1,495.4
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	5.3	5.1	7.8	2.9	8.8	7.8	16.1	12.9	24.7	26.7	28.2
DEPARTMENT OF COMMERCE, TOTAL	3.9	9.2	7.4	7.9	11.6	9.5	8.6	7.1	4.1	1.9	.6
DEPARTMENT OF DEFENSE, TOTAL	140.6	153.7	174.7	146.4	169.1	167.1	143.4	445.6	232.6	164.3	260.6
DEPARTMENT OF THE ARMY	27.2	43.6	39.5	17.1	32.1	23.9	12.3	16.3	7.6	7.5	19.1
DEPARTMENT OF THE NAVY	18.2	28.0	40.4	35.7	54.0	62.7	45.8	61.2	48.3	71.2	82.3
DEPARTMENT OF THE AIR FORCE	59.2	49.7	70.8	70.6	67.7	59.6	73.0	350.0	160.1	60.0	125.0
DEFENSE AGENCIES	36.0	32.3	24.1	23.0	15.3	20.9	12.3	18.1	16.6	25.6	34.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	561.0	690.7	905.5	913.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	31.2	17.4	55.0	41.6	40.9	39.1	33.1	132.6	74.3	60.0	31.7
DEPT OF THE INTERIOR, TOTAL	10.6	8.5	13.8	22.0	2.1	3.9	5.9	5.0	15.0	6.1	1.2
DEPARTMENT OF STATE, TOTAL	.1	8.9	2.6	.4	.4	-	5.1	16.2	.2	5.2	1.5
DEPT OF TRANSPORTATION, TOTAL	5.5	10.8	25.8	38.2	13.4	13.3	14.2	22.5	14.1	23.7	25.1
DEPT OF THE TREASURY, TOTAL	0	0	0	0	0	0	.1	.1	0	0	0
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	265.9	312.2	246.7	349.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	392.7	392.6	438.8	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	2.0	1.1	.7	24.5	1.2	2.1	6.3	2.1	4.6	2.5	1.4
NAT'L AERONAUTICS & SPACE ADMIN	33.4	40.2	45.2	69.3	98.4	142.7	82.1	118.1	162.3	147.5	157.6
NATIONAL SCIENCE FOUNDATION	23.3	27.9	18.6	57.1	11.7	23.1	52.6	27.1	39.7	37.6	23.5
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	3.8	3.0	9.6	7.1	6.9	8.7	9.3
VETERANS ADMINISTRATION	2.6	15.0	2.2	10.3	2.1	2.2	11.8	5.9	4.1	8.3	9.1
ALL OTHER AGENCIES	.1	1.3	1.5	4.6	10.2	14.4	10.8	3.9	22.4	33.6	32.3

0 INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-114. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1970	15,864.8	1,887.0	3,063.9	10,389.4	524.4
1971	16,156.2	1,956.6	3,294.4	10,294.0	611.2
1972	17,099.8	2,178.6	3,413.8	10,905.4	602.1
1973	17,574.4	2,210.6	3,435.4	11,154.1	774.3
1974	18,181.0	2,364.5	3,855.5	11,194.7	766.3
1975	19,867.8	2,590.8	4,258.4	12,197.9	820.7
1976	21,625.7	2,759.2	4,865.1	13,164.5	836.7
1977	25,362.2	3,256.4	5,358.8	15,379.8	1,367.2
1978	27,710.0	3,699.1	6,051.8	16,663.4	1,295.7
1979 (ESTIMATED)	31,007.7	4,205.1	6,684.1	18,686.8	1,431.8
1980 (ESTIMATED)	32,228.3	4,537.6	7,055.7	19,139.6	1,495.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-115. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	4,950.9	5,251.0	5,592.4	5,646.0	6,220.0	6,849.1	7,624.4	8,615.2	9,750.9	10,889.2	11,593.3
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	271.9	292.2	337.2	354.1	365.1	401.9	442.2	524.0	594.5	637.5	635.8
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	29.7	32.7	35.9	39.8
ECONOMIC RESEARCH SVC	14.9	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.5	.5	.5	.5	.4	1.0	1.6	N/A	N/A	N/A	N/A
FOREST SERVICE	41.9	45.1	52.9	56.1	62.3	73.3	74.5	86.1	100.7	107.3	100.4
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	408.2	461.1	494.3	495.5
AGRICULTURAL RESEARCH	152.5	161.8	183.9	189.7	193.4	204.1	227.6	281.0	303.7	320.4	317.7
COOPERATIVE RESEARCH	61.1	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	173.9	177.8
TECHNICAL INFO SYSTEMS	.2	.4	.2	.3	.1	*	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	94.1	113.7	143.4	130.2	129.2	144.4	155.7	176.1	192.8	216.2	228.2
NATIONAL BUREAU OF STANDARDS	27.1	28.7	29.8	31.0	32.7	34.7	37.5	45.0	48.5	53.7	57.4
NAT'L OCEANIC & ATMOS ADMIN	52.9	65.6	90.2	89.1	87.1	99.7	104.9	115.8	127.9	144.6	155.9
OTHER COMMERCE	14.1	19.5	23.3	10.0	9.4	10.0	13.3	15.4	16.3	17.9	14.8
DEPARTMENT OF DEFENSE, TOTAL	1,378.7	1,434.6	1,547.4	1,500.7	1,474.6	1,542.2	1,523.3	1,804.9	1,941.2	2,152.7	2,412.5
DEPARTMENT OF THE ARMY	291.5	339.1	351.0	361.9	348.7	335.7	306.4	433.4	414.3	435.5	502.8
DEPARTMENT OF THE NAVY	272.9	273.2	303.2	284.1	292.9	302.7	314.9	378.0	402.0	445.1	448.1
DEPARTMENT OF THE AIR FORCE	486.9	498.8	508.9	523.0	508.0	571.5	557.1	598.8	685.7	740.9	805.6
DEFENSE AGENCIES	323.2	320.5	380.4	328.5	322.2	330.6	344.1	393.4	431.7	526.0	645.2
DEFENSE CIVIL PREPAREDNESS AGENCY	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	5.2	10.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	891.3	1,102.2	1,183.2	1,267.9
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,040.9	1,231.9	1,432.0	1,444.2	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	3,141.5	3,217.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	122.2	155.6	139.4	136.6	152.0	178.8	216.9	258.4
HLTH SVCS & MENTAL HLTH ADMIN	160.4	179.2	200.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	16.1	9.5	4.1	10.8	27.1	34.6	42.5	45.5
NATIONAL INSTITUTES OF HEALTH	780.4	913.5	1,099.4	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	2,561.8	2,566.9
OFFICE OF EDUCATION	33.1	62.8	36.0	6.6	6.4	5.3	21.4	11.9	13.3	18.5	18.3
OTHER HEW	67.1	76.5	96.2	167.2	185.5	171.9	214.2	254.6	281.4	301.9	328.2
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	7.1	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	31.8	27.8
DEPT OF THE INTERIOR, TOTAL	121.7	139.1	148.9	159.8	147.7	241.9	268.3	267.4	309.8	374.7	369.4
BUREAU OF MINES	33.9	38.7	40.7	41.5	30.5	52.9	73.3	52.3	57.0	90.4	78.5
GEOLOGICAL SURVEY	41.0	44.1	53.1	62.6	70.4	114.5	119.2	128.9	159.9	174.0	178.2
OTHER INTERIOR	46.8	56.2	55.1	55.8	46.7	74.5	75.8	86.2	92.8	110.3	112.7
DEPARTMENT OF JUSTICE, TOTAL	5.3	6.5	12.4	7.0	18.6	18.9	18.3	17.6	45.7	33.0	26.0
LAW ENFORCEMENT ASSIST ADMIN	4.5	5.0	11.2	5.5	16.9	17.9	17.7	16.4	43.3	28.6	23.1
OTHER JUSTICE	.8	1.5	1.2	1.6	1.7	1.0	.6	1.2	2.4	4.4	2.9
DEPARTMENT OF LABOR, TOTAL	11.3	13.6	13.3	13.3	17.2	15.3	18.0	18.7	25.7	32.2	32.8
DEPARTMENT OF STATE, TOTAL	18.9	29.0	25.7	24.6	17.8	22.5	25.1	38.3	49.1	78.9	74.2
AGENCY FOR INTERNAT'L DEVMNT	18.6	28.6	25.2	23.9	16.8	21.7	24.0	36.2	46.6	76.3	72.4
OTHER STATE	.3	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	1.8
DEPT OF TRANSPORTATION, TOTAL	83.3	97.0	98.2	77.2	61.8	53.8	31.1	51.8	66.5	77.3	67.3
FEDERAL AVIATION ADMIN	10.0	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	9.0	7.8
FEDERAL HIGHWAY ADMIN	28.6	23.9	20.3	1.8	3.3	3.4	1.9	5.3	4.9	5.6	5.4
FEDERAL RAILROAD ADMIN	9.6	18.0	9.3	15.4	1.6	2.7	8.6	6.6	9.2	8.5	7.5
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15.9	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	38.6	31.6
URBAN MASS TRANS ADMIN	6.2	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.0	1.0
OTHER TRANSPORTATION	13.0	13.4	17.9	14.2	21.9	18.7	6.5	6.7	6.5	14.6	14.0
DEPT OF THE TREASURY, TOTAL	.3	.4	.5	.4	.5	.4	1.5	2.1	4.1	4.8	5.0
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	433.1	429.0	417.1	424.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	464.7	593.4	746.5	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	53.0	53.8	51.1	74.3	96.3	141.7	155.4	205.3	252.7	267.3	314.3
NAT'L AERONAUTICS & SPACE ADMIN	1,030.2	922.7	764.6	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,495.1	1,637.0
NATIONAL SCIENCE FOUNDATION	274.8	318.3	427.3	464.0	520.3	570.0	595.8	688.3	743.5	811.1	901.1
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	151.6	176.3
OFFICE OF ECONOMIC OPPORTUNITY	29.4	63.1	55.3	32.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	57.8	62.1	67.1	69.7	78.7	87.1	85.1	92.3	99.4	111.5	109.6
ALL OTHER AGENCIES	39.2	33.6	38.4	57.0	59.1	57.9	59.1	71.7	73.4	88.8	90.8

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-116. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	1,887.0	1,956.6	2,178.6	2,210.6	2,364.5	2,590.8	2,759.2	3,256.4	3,699.1	4,205.1	4,537.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	115.7	118.4	137.3	142.7	145.6	154.2	171.4	209.5	242.7	251.9	267.6
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.8	3.9	4.3	4.8
ECONOMIC RESEARCH SVC	4.3	4.7	4.6	4.8	5.4	3.2	3.6	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.2	.2	-	-	-	-	-	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.1	.1	.1	.1	*	.3	.4	N/A	N/A	N/A	N/A
FOREST SERVICE	14.5	15.7	18.3	19.3	20.7	21.1	22.6	26.7	30.8	32.9	30.8
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	174.0	207.9	214.7	232.0
AGRICULTURAL RESEARCH	73.3	72.1	82.9	84.6	85.5	91.2	101.7	125.6	142.4	143.3	149.5
COOPERATIVE RESEARCH	23.2	25.8	31.4	34.0	34.0	38.4	43.1	48.4	65.6	71.4	82.5
DEPARTMENT OF COMMERCE, TOTAL	39.2	41.8	44.0	16.3	18.2	20.1	22.3	23.2	23.9	26.6	28.8
NATIONAL BUREAU OF STANDARDS	14.4	14.5	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.6	10.7
NAT'L OCEANIC & ATMOS ADMIN	21.0	26.1	36.1	9.7	10.5	12.0	11.3	10.9	12.1	12.8	14.0
OTHER COMMERCE	3.8	1.2	3.1	2.2	1.5	2.8	5.2	5.4	5.9	5.2	4.2
DEPARTMENT OF DEFENSE, TOTAL	246.7	261.5	270.3	257.8	243.9	235.5	248.4	294.8	319.1	378.4	436.9
DEPARTMENT OF THE ARMY	45.5	46.5	55.8	44.7	48.0	37.3	39.0	58.6	54.5	59.9	73.6
DEPARTMENT OF THE NAVY	81.9	85.8	92.6	83.6	83.3	88.1	95.9	115.3	130.3	151.8	152.8
DEPARTMENT OF THE AIR FORCE	81.0	84.7	86.6	92.3	77.7	79.4	81.6	85.3	95.1	104.9	122.2
DEFENSE AGENCIES	38.3	44.5	35.4	37.2	34.9	30.7	31.9	35.6	39.1	61.8	88.3
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	389.5	440.5	471.6	548.4
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	513.0	574.5	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	1,561.4	1,581.5
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	52.6	53.3	66.2	52.6	62.7	79.9	95.9	110.3
HLTH SVCS & MENTAL HLTH ADMIN	60.3	63.6	75.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	11.4	4.8	1.9	5.1	11.9	18.3	21.7	23.4
NATIONAL INSTITUTES OF HEALTH	444.4	503.7	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	1,428.6	1,434.5
OFFICE OF EDUCATION	7.8	6.8	3.7	.1	.2	-	-	-	-	-	-
OTHER HEW	.4	.4	.6	10.4	16.5	7.1	8.2	12.2	13.1	15.2	13.3
DEPT OF THE INTERIOR, TOTAL	49.9	52.7	57.1	66.5	74.1	109.9	113.3	128.9	145.7	165.4	161.4
BUREAU OF MINES	6.2	6.5	7.8	6.9	5.6	1.9	.8	4.0	8.6	13.8	11.3
GEOLOGICAL SURVEY	30.7	31.6	35.5	45.5	52.6	93.6	98.5	105.6	126.1	138.0	137.3
OTHER INTERIOR	13.0	14.5	13.7	14.1	15.9	14.4	14.0	19.3	11.0	13.6	12.7
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	2.1	2.1	9.5	4.5	5.1	14.7	9.7	8.7
LAW ENFORCEMENT ASSIST ADMIN	-	-	-	2.1	2.1	9.5	4.5	5.1	14.7	9.7	8.7
DEPARTMENT OF LABOR, TOTAL	2.1	2.5	1.1	1.3	1.2	.9	1.0	.7	3.7	3.9	3.8
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	1.5	-	-	-	-	-
AGENCY FOR INTERNAT'L DEVMNT	-	-	-	-	-	1.5	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	.4	.3	.5	.2	.3	.1	-	-	-	-	-
FEDERAL HIGHWAY ADMIN	.3	.1	.2	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMIN	-	*	-	-	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	.0	-	-	-	-	-	-	-	-	-	-
URBAN MASS TRANS ADMIN	.0	-	-	-	-	-	-	-	-	-	-
OTHER TRANSPORTATION	*	.2	.4	.2	.3	.1	-	-	-	-	-
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	286.7	276.9	268.3	275.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	269.5	312.8	345.8	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	5.5	6.1	6.1	9.0	9.5	17.4	13.7	8.3	6.0	9.4	16.9
NAT'L AERONAUTICS & SPACE ADMIN	357.5	327.3	331.6	350.3	305.9	309.3	293.2	413.8	479.7	531.2	599.2
NATIONAL SCIENCE FOUNDATION	245.0	272.6	367.7	392.4	415.2	486.0	523.6	624.9	678.0	741.1	828.3
OFFICE OF ECONOMIC OPPORTUNITY	1.6	3.2	4.2	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	5.3	3.1	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.3	9.9
ALL OTHER AGENCIES	18.7	15.6	21.8	25.3	25.5	26.1	27.0	34.2	43.9	45.2	46.3

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-117. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	3,063.9	3,294.4	3,413.8	3,435.4	3,855.5	4,258.4	4,865.1	5,358.8	6,051.8	6,684.1	7,055.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	156.2	173.7	199.9	211.4	219.5	247.8	270.9	319.6	351.8	385.6	368.2
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.9	28.8	31.6	35.0
ECONOMIC RESEARCH SVC	10.6	10.9	11.4	12.2	12.7	18.1	20.4	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.7	.8	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.4	.4	.4	.4	.4	.7	1.1	N/A	N/A	N/A	N/A
FOREST SERVICE	27.4	29.5	34.6	36.8	41.6	52.2	51.9	59.4	69.8	74.4	69.6
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	234.3	253.2	279.6	263.5
AGRICULTURAL RESEARCH	79.1	89.8	101.0	105.1	107.9	112.9	125.9	155.4	161.3	177.1	168.2
COOPERATIVE RESEARCH	37.9	42.0	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.5	95.4
TECHNICAL INFO SYSTEMS	.2	.4	.2	.3	.1	*	*	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	54.9	71.9	99.4	113.8	111.0	124.4	133.4	153.0	168.9	189.6	199.4
NATIONAL BUREAU OF STANDARDS	12.7	14.2	25.0	26.6	26.5	29.4	31.7	38.0	42.6	45.1	46.8
NAT'L OCEANIC & ATMOS ADMIN	31.9	39.5	54.1	79.5	76.6	87.8	93.6	104.9	115.9	131.8	142.0
OTHER COMMERCE	10.3	18.2	20.2	7.8	7.9	7.2	8.1	10.0	10.4	12.7	10.6
DEPARTMENT OF DEFENSE, TOTAL	1,132.0	1,173.0	1,277.0	1,242.9	1,230.8	1,306.7	1,274.8	1,510.1	1,622.1	1,774.3	1,975.7
DEPARTMENT OF THE ARMY	246.1	292.6	295.2	317.3	300.7	298.4	267.4	374.9	359.8	375.6	429.1
DEPARTMENT OF THE NAVY	191.0	187.4	210.6	200.5	209.7	214.6	219.0	262.6	271.7	293.3	295.3
DEPARTMENT OF THE AIR FORCE	405.9	414.1	422.3	430.7	430.3	492.1	475.5	513.5	590.6	636.0	683.4
DEFENSE AGENCIES	285.0	275.9	345.0	291.2	287.3	299.9	312.2	357.8	392.5	464.1	556.9
DEFENSE CIVIL PREPAREDNESS AGENCY	4.1	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	5.2	10.9
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	501.8	661.7	711.5	719.5
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	528.0	657.4	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	1,580.1	1,635.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	69.6	102.3	73.2	84.1	89.3	98.8	121.0	148.1
HLTH SVCS & MENTAL HLTH ADMIN	100.0	115.6	125.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	N/A	4.7	4.7	2.2	5.7	15.2	16.3	20.8	22.1
NATIONAL INSTITUTES OF HEALTH	336.0	409.8	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	1,133.2	1,132.4
OFFICE OF EDUCATION	25.3	56.0	32.3	6.6	6.3	5.3	21.4	11.9	13.3	18.5	18.3
OTHER HEW	66.7	76.1	95.5	156.8	169.0	164.8	206.0	242.5	268.4	286.6	315.0
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	7.1	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	31.8	27.8
DEPT OF THE INTERIOR, TOTAL	71.8	86.4	91.8	93.3	73.6	132.0	155.0	138.5	164.1	209.3	208.0
BUREAU OF MINES	27.6	32.2	32.8	34.6	24.9	51.0	72.5	48.3	48.4	76.6	67.2
GEOLOGICAL SURVEY	10.3	12.5	17.6	17.0	17.8	20.9	20.7	23.3	33.8	36.1	40.8
OTHER INTERIOR	33.8	41.6	41.4	41.7	30.9	60.1	61.8	66.9	81.8	96.6	100.0
DEPARTMENT OF JUSTICE, TOTAL	5.3	6.5	12.4	4.9	16.5	9.4	13.8	12.5	31.0	23.3	17.2
LAW ENFORCEMENT ASSIST ADMIN	4.5	5.0	11.2	3.4	14.8	8.5	13.2	11.3	28.6	18.9	14.4
OTHER JUSTICE	.8	1.5	1.2	1.6	1.7	1.0	.6	1.2	2.4	4.4	2.9
DEPARTMENT OF LABOR, TOTAL	9.2	11.1	12.2	12.0	16.0	14.4	17.0	18.0	22.0	28.3	29.0
DEPARTMENT OF STATE, TOTAL	18.9	29.0	25.7	24.6	17.8	21.0	25.1	38.3	49.1	78.9	74.2
AGENCY FOR INTERNAT'L DEVMNT	18.6	28.6	25.2	23.9	16.8	20.2	24.0	36.2	46.6	76.3	72.4
OTHER STATE	.3	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	1.8
DEPT OF TRANSPORTATION, TOTAL	82.9	96.7	97.6	77.1	61.5	53.8	31.1	51.8	66.5	77.3	67.3
FEDERAL AVIATION ADMIN	10.0	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	9.0	7.8
FEDERAL HIGHWAY ADMIN	28.3	23.7	20.1	1.8	3.3	3.4	1.9	5.3	4.9	5.6	5.4
FEDERAL RAILROAD ADMIN	9.6	17.9	9.3	15.4	1.6	2.7	8.6	6.6	9.2	8.5	7.5
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	15.9	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	38.6	31.6
URBAN MASS TRANS ADMIN	6.2	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.0	1.0
OTHER TRANSPORTATION	13.0	13.2	17.5	14.1	21.6	18.6	6.5	6.7	6.5	14.6	14.0
DEPT OF THE TREASURY, TOTAL	.3	.4	.5	.4	.5	.4	1.5	2.1	4.1	4.8	5.0
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	146.4	152.1	148.8	149.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	195.2	280.7	400.7	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	47.5	47.7	45.0	65.3	86.8	124.3	141.7	197.0	246.7	257.8	297.4
NAT'L AERONAUTICS & SPACE ADMIN	672.7	595.4	433.0	443.6	539.8	625.8	929.6	792.3	865.4	963.9	1,037.8
NATIONAL SCIENCE FOUNDATION	29.8	45.7	59.6	71.5	105.0	84.0	72.1	63.4	65.5	70.0	72.8
NUCLEAR REGULATORY COMMISSION	N/A	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	151.6	176.3
OFFICE OF ECONOMIC OPPORTUNITY	27.8	59.9	51.1	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	52.5	59.0	63.9	66.5	75.2	83.3	76.2	83.2	90.5	102.2	99.7
ALL OTHER AGENCIES	20.5	18.0	16.6	31.7	33.6	31.8	32.1	37.5	29.5	43.7	44.5

* INDICATES AMOUNT LESS THAN $50,000.

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-118. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL, ALL AGENCIES	10,389.4	10,294.0	10,905.4	11,154.1	11,194.7	12,197.9	13,164.5	15,379.8	16,663.4	18,686.8	19,139.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	9.2	12.8	12.4	12.4	13.6	18.1	20.2	22.9	26.8	29.4	27.9
DEPARTMENT OF COMMERCE, TOTAL	27.5	30.0	43.9	60.4	51.4	71.0	73.1	68.6	90.9	102.9	93.7
DEPARTMENT OF DEFENSE, TOTAL	5,981.7	6,074.4	6,770.8	6,903.5	6,945.7	7,470.3	8,131.5	9,158.5	9,612.4	10,848.8	11,467.2
DEPARTMENT OF THE ARMY	1,368.3	1,343.2	1,713.2	1,651.6	1,661.1	1,561.1	1,707.2	2,008.5	2,134.6	2,340.1	2,542.1
DEPARTMENT OF THE NAVY	1,985.0	2,010.5	2,216.2	2,370.7	2,425.6	2,797.4	3,013.1	3,439.4	3,596.4	4,173.1	4,079.8
DEPARTMENT OF THE AIR FORCE	2,503.1	2,614.7	2,745.4	2,750.5	2,708.2	2,942.0	3,169.5	3,432.3	3,576.6	3,938.2	4,415.3
DEFENSE AGENCIES	125.4	106.0	96.0	105.6	126.6	145.9	217.5	248.0	276.2	372.7	399.9
DIRECTOR OF TEST & EVALUATION	N/A	N/A	-	25.1	24.2	23.9	24.1	30.2	28.6	24.6	30.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,505.3	3,390.9
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	180.0	244.2	319.1	393.4	443.4	472.6	432.8	409.0	466.5	523.9	508.4
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	22.8	37.2	36.4	39.5	31.0	28.5	30.6	19.4	39.2	35.9	36.3
DEPT OF THE INTERIOR, TOTAL	36.2	54.7	71.4	83.6	48.9	69.3	73.7	58.7	75.5	60.3	47.9
DEPARTMENT OF JUSTICE, TOTAL	3.3	3.8	11.0	26.2	16.1	25.4	15.5	10.1	15.2	12.4	11.2
DEPARTMENT OF LABOR, TOTAL	9.3	9.2	9.9	6.6	6.6	10.1	10.5	10.8	72.1	71.7	54.0
DEPARTMENT OF STATE, TOTAL	8.7	1.1	.9	1.6	4.7	5.4	14.2	23.1	36.1	26.7	32.4
DEPT OF TRANSPORTATION, TOTAL	244.5	400.2	212.3	233.4	308.0	257.7	263.4	302.8	341.8	340.9	327.8
DEPT OF THE TREASURY, TOTAL	.3	.4	.8	.6	.7	1.3	2.3	2.7	5.8	6.6	7.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	912.9	873.9	880.5	938.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	N/A	N/A	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	35.5	82.9	73.3	106.3	72.9	115.9	103.7	90.2	132.0	133.1	121.3
NAT'L AERONAUTICS & SPACE ADMIN	2,769.7	2,335.2	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	2,497.3	2,530.2	2,897.2	2,903.0
NATIONAL SCIENCE FOUNDATION	14.2	18.7	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9	9.0
OFFICE OF ECONOMIC OPPORTUNITY	94.0	70.8	37.4	55.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	.9	.8	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.8	17.0
ALL OTHER AGENCIES	38.6	43.7	5.2	5.3	28.7	36.4	25.5	37.3	56.5	68.0	83.7

N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-119. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1970-80

(MILLIONS OF DOLLARS)

PERFORMER	1970	1971	1972	1973	1974	1975	1976	1977	1978	ESTIMATES 1979	ESTIMATES 1980
TOTAL	15,340.3	15,545.0	16,497.8	16,800.1	17,414.7	19,047.1	20,788.9	23,995.0	26,414.3	29,576.0	30,732.9
FEDERAL INTRAMURAL (1)	3,855.2	4,156.2	4,481.8	4,619.0	4,814.8	5,397.6	5,710.1	6,141.8	6,882.0	7,521.5	7,747.4
INDUSTRIAL FIRMS (2)	8,414.6	8,135.0	8,354.8	8,456.5	8,438.1	9,093.5	10,233.4	12,238.8	13,082.0	14,905.7	15,535.8
UNIVERSITIES AND COLLEGES	1,472.8	1,644.2	1,902.2	1,915.5	2,214.5	2,408.4	2,541.5	2,898.3	3,399.5	3,864.3	4,047.6
FFRDC'S ADMINISTERED BY UNIVERSITIES	751.1	728.9	760.6	725.3	789.1	935.1	1,061.1	1,326.8	1,325.6	1,411.4	1,499.7
OTHER NONPROFIT INSTITUTIONS (2)	706.8	676.6	732.2	762.6	878.7	923.4	938.5	1,063.0	1,333.5	1,468.5	1,486.6
ALL OTHER PERFORMERS	139.8	204.1	266.3	321.2	279.4	289.2	304.3	326.2	391.6	404.5	415.9

(1) FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

(2) INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-120. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1968-78

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
TOTAL, ALL STATES	15,690.2	15,354.6	14,980.9	15,239.8	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	23,374.3	25,619.8
NEW ENGLAND	1,009.4	1,085.7	1,000.8	1,145.0	1,259.8	1,264.4	1,561.8	1,650.5	1,716.2	1,963.7	2,231.1
CONNECTICUT	133.2	223.6	160.0	149.9	169.2	193.9	233.7	269.7	239.4	291.8	299.8
MAINE	6.0	14.3	13.3	13.6	16.3	9.6	10.5	11.9	15.6	18.3	25.4
MASSACHUSETTS	795.7	775.0	760.9	883.2	961.2	953.6	1,188.3	1,228.6	1,284.9	1,474.4	1,693.3
NEW HAMPSHIRE	36.6	31.0	27.3	34.0	21.5	30.6	29.3	33.6	34.7	32.6	68.7
RHODE ISLAND	31.1	32.8	29.9	50.5	68.9	59.3	74.9	75.1	101.8	110.1	120.3
VERMONT	6.8	9.0	9.5	13.7	22.8	17.5	25.1	31.6	39.7	36.6	23.7
MIDDLE ATLANTIC	2,473.4	2,436.1	2,516.0	2,413.5	2,481.0	2,206.7	2,160.2	2,281.3	2,439.1	2,608.1	2,802.2
NEW JERSEY	681.8	708.9	741.7	745.1	763.1	645.2	473.8	442.0	495.7	566.3	522.5
NEW YORK	1,174.9	1,107.0	1,235.6	1,119.5	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,204.3	1,284.1
PENNSYLVANIA	616.7	620.3	538.8	548.9	642.3	628.8	660.1	780.7	836.0	837.5	995.7
EAST NORTH CENTRAL	1,294.0	1,044.3	1,038.8	1,121.7	1,179.6	1,082.8	1,263.8	1,377.3	1,439.5	1,726.3	2,010.4
ILLINOIS	239.3	251.2	239.6	249.1	291.0	287.6	325.4	371.3	414.3	517.2	564.3
INDIANA	82.9	108.8	91.9	74.6	100.5	82.9	95.0	92.8	92.4	102.8	108.1
MICHIGAN	203.4	167.4	162.8	187.3	186.3	153.8	196.6	248.9	222.2	316.6	367.8
OHIO	653.6	432.6	457.3	518.1	521.7	478.8	567.3	585.2	627.8	694.8	858.3
WISCONSIN	114.8	84.2	87.1	92.6	80.1	79.6	79.6	79.2	82.8	94.8	111.9
WEST NORTH CENTRAL	321.1	328.5	475.4	786.0	906.0	830.8	607.4	574.0	681.6	974.8	1,250.7
IOWA	41.7	34.2	32.7	32.9	37.9	38.5	46.5	47.8	48.5	60.1	68.3
KANSAS	19.8	39.6	16.6	24.3	31.3	30.4	29.4	32.8	32.1	36.3	106.6
MINNESOTA	111.1	89.3	109.3	102.8	127.0	120.2	106.9	123.2	153.3	186.5	177.7
MISSOURI	121.1	141.9	291.2	596.9	679.5	608.1	387.0	330.0	404.3	639.6	827.3
NEBRASKA	15.4	11.3	10.6	10.4	11.7	13.4	14.7	20.3	21.4	24.5	33.5
NORTH DAKOTA	6.0	6.8	8.9	9.1	10.5	9.5	10.5	13.0	14.8	19.3	28.3
SOUTH DAKOTA	6.0	5.4	6.1	9.6	8.1	10.7	12.4	6.8	7.3	8.5	9.1
SOUTH ATLANTIC	2,819.7	2,961.3	2,899.3	3,228.3	3,560.6	3,706.0	3,752.8	3,993.2	4,228.7	4,879.6	5,288.7
DELAWARE	13.9	16.1	16.3	13.0	17.4	40.8	10.4	10.0	8.0	15.3	11.1
DISTRICT OF COLUMBIA	443.2	444.3	468.5	481.9	462.1	490.0	552.3	580.3	570.3	729.8	792.3
FLORIDA	799.1	884.5	824.8	890.4	1,022.5	952.0	783.2	796.8	788.3	919.2	947.6
GEORGIA	280.7	276.8	72.3	78.8	71.9	66.8	70.9	81.0	92.3	111.2	155.7
MARYLAND	905.9	961.8	1,063.4	1,201.2	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	2,031.4	2,126.0
NORTH CAROLINA	62.4	58.5	63.9	82.7	83.3	101.7	110.0	116.9	139.1	154.7	192.3
SOUTH CAROLINA	18.7	17.1	17.8	23.4	26.3	23.7	28.8	24.6	30.8	67.2	118.3
VIRGINIA	275.2	286.3	352.8	424.9	529.6	567.9	642.3	726.8	751.5	800.2	872.1
WEST VIRGINIA	20.6	16.0	19.6	32.1	29.4	28.2	25.9	46.5	37.2	50.6	73.3
EAST SOUTH CENTRAL	655.3	597.5	599.7	618.3	638.9	681.5	726.7	745.6	885.2	1,131.9	1,277.1
ALABAMA	405.7	358.4	357.2	360.0	359.0	376.5	377.4	363.1	374.4	433.7	483.7
KENTUCKY	24.1	21.4	20.4	23.1	32.1	38.1	31.3	35.2	51.0	56.6	62.1
MISSISSIPPI	26.5	26.0	28.3	46.7	60.7	57.5	76.3	57.9	71.6	95.4	87.1
TENNESSEE	199.1	191.6	193.8	188.5	187.1	209.5	241.7	289.4	388.2	546.3	644.3
WEST SOUTH CENTRAL	1,188.9	894.3	834.9	733.1	798.9	794.0	772.1	874.2	1,021.9	1,127.3	1,389.0
ARKANSAS	8.1	7.4	9.8	20.8	13.2	16.6	14.2	23.3	26.5	24.3	42.4
LOUISIANA	272.4	171.8	146.5	90.1	103.6	91.6	75.7	101.8	126.1	156.5	162.7
OKLAHOMA	24.0	20.1	29.5	26.3	29.1	34.8	29.9	34.5	32.1	48.2	105.0
TEXAS	884.4	695.0	649.1	595.9	653.0	651.0	652.2	714.5	837.2	898.3	1,078.9
MOUNTAIN	1,093.6	1,136.7	1,137.7	1,127.4	1,214.4	1,290.6	1,213.0	1,281.0	1,400.4	1,727.3	2,077.9
ARIZONA	71.4	79.2	72.8	88.7	89.9	94.8	99.5	116.3	122.5	142.5	163.4
COLORADO	265.3	264.4	274.1	264.2	369.1	410.8	323.3	267.9	248.6	324.2	393.2
IDAHO	65.6	69.6	75.0	75.3	75.9	81.8	52.2	67.2	72.7	119.8	107.0
MONTANA	8.3	8.3	11.6	17.6	19.0	19.9	13.6	28.4	29.8	47.8	27.5
NEVADA	223.6	232.3	190.9	159.0	140.3	143.1	112.5	150.0	179.7	184.3	196.7
NEW MEXICO	413.3	426.3	445.0	458.7	451.5	462.8	532.0	554.8	626.3	751.4	987.4
UTAH	39.7	49.8	61.1	55.8	58.9	66.7	68.7	80.1	101.5	133.2	161.8
WYOMING	6.4	6.8	7.2	8.1	9.9	10.7	11.0	16.3	19.4	24.2	40.8
PACIFIC	4,774.3	4,813.5	4,404.1	4,004.9	4,158.2	4,562.2	4,864.3	5,692.5	6,369.4	7,148.8	7,208.1
ALASKA	61.8	68.6	43.2	58.2	46.0	41.8	25.3	36.4	37.6	38.1	48.7
CALIFORNIA	4,298.6	4,289.8	3,871.1	3,295.4	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	6,109.7	6,141.1
HAWAII	35.0	37.7	43.8	38.3	47.4	47.9	53.1	43.0	45.5	36.9	44.6
OREGON	35.0	36.1	33.8	41.9	53.7	64.3	59.9	79.0	84.6	84.9	95.3
WASHINGTON	343.9	381.2	412.2	571.2	537.9	567.9	650.4	694.6	705.6	879.1	878.3
OUTLYING AREAS	12.8	11.6	17.3	18.6	18.4	19.7	19.6	28.8	22.4	47.8	38.7
OFFICES ABROAD	47.6	45.1	56.8	42.9	46.1	47.4	49.1	43.9	43.0	38.6	45.9

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-121. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1968-78

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
TOTAL, ALL STATES	599.8	663.5	519.6	586.0	595.6	757.5	749.8	801.0	799.2	1,334.0	1,262.0
NEW ENGLAND	55.9	28.3	15.0	15.7	24.5	15.5	17.7	22.7	22.4	36.1	34.9
CONNECTICUT	8.8	1.4	2.8	1.5	2.7	2.4	5.2	3.8	1.9	3.9	2.3
MAINE	.1	.1	.1	-	.4	*	.2	*	*	.1	.1
MASSACHUSETTS	45.2	25.5	10.7	9.7	16.1	8.4	9.5	11.0	14.0	24.4	28.7
NEW HAMPSHIRE	.6	.1	*	2.0	1.5	.4	1.1	2.9	2.0	2.4	1.3
RHODE ISLAND	.9	.9	1.3	2.1	2.8	4.2	.7	4.9	4.5	5.3	2.4
VERMONT	.2	.4	*	.4	1.1	.1	1.0	-	-	-	-
MIDDLE ATLANTIC	73.6	76.1	51.5	55.7	74.1	99.7	101.4	76.8	70.6	133.9	189.3
NEW JERSEY	11.7	7.8	5.6	5.0	14.9	5.3	2.5	11.5	22.1	64.8	96.7
NEW YORK	43.7	43.7	26.7	33.9	21.9	81.8	77.1	46.4	37.5	61.0	63.8
PENNSYLVANIA	18.2	24.6	19.2	16.8	37.3	12.6	21.8	18.9	11.0	8.1	28.8
EAST NORTH CENTRAL	62.1	86.4	119.9	100.1	85.5	129.7	69.7	48.3	66.5	114.6	108.7
ILLINOIS	31.4	42.0	94.7	85.2	68.1	84.3	42.9	29.6	45.2	52.0	72.9
INDIANA	3.6	.9	.4	.8	.5	.3	.1	.1	.8	.6	.4
MICHIGAN	3.3	5.1	3.8	.9	2.9	4.8	.2	.6	2.0	1.1	1.9
OHIO	20.7	32.8	20.3	10.1	13.0	39.1	19.6	15.1	13.6	60.4	23.9
WISCONSIN	3.1	5.7	.6	3.1	1.0	1.1	6.9	2.9	4.9	.5	9.6
WEST NORTH CENTRAL	14.2	12.7	9.3	10.8	8.1	4.7	26.9	5.8	3.6	3.6	7.6
IOWA	7.3	1.8	1.2	1.5	.8	1.1	.5	.7	1.1	1.5	2.3
KANSAS	.7	3.9	.1	.2	.1	.2	.1	*	.1	.1	.2
MINNESOTA	3.3	1.1	.8	4.1	1.3	.5	23.4	.1	.5	.4	1.2
MISSOURI	.7	1.3	4.2	2.2	.7	.3	.8	4.1	.5	.9	1.2
NEBRASKA	1.1	3.5	.9	1.2	1.6	1.0	1.5	.4	1.0	.2	.3
NORTH DAKOTA	.5	.6	.1	.1	.5	.1	.2	.4	.5	.6	2.3
SOUTH DAKOTA	.8	.5	2.1	1.5	3.1	1.5	.4	-	-	*	.1
SOUTH ATLANTIC	157.2	115.7	72.3	77.0	114.1	142.9	140.5	173.7	166.9	358.5	233.4
DELAWARE	.5	*	*	-	*	*	.1	.1	-	*	*
DISTRICT OF COLUMBIA	14.5	8.3	6.4	5.1	9.0	31.5	1.1	7.9	21.4	11.3	11.1
FLORIDA	76.9	57.5	33.2	30.8	47.7	40.1	51.7	96.0	76.3	155.2	81.1
GEORGIA	4.0	2.3	2.0	2.3	1.8	.7	.1	.5	.2	1.2	1.8
MARYLAND	36.6	30.6	20.3	29.7	36.1	51.4	60.8	40.1	36.7	80.4	82.7
NORTH CAROLINA	3.6	4.5	3.1	.4	6.0	4.8	4.1	.3	.6	66.8	3.5
SOUTH CAROLINA	1.5	3.2	1.8	1.3	1.2	3.4	7.7	3.8	3.3	2.2	6.9
VIRGINIA	15.8	4.0	3.5	7.0	11.3	7.0	14.0	23.1	11.6	24.7	29.3
WEST VIRGINIA	3.7	5.3	1.9	.4	.9	4.2	.8	1.9	16.7	16.7	17.0
EAST SOUTH CENTRAL	18.0	30.7	16.8	18.3	27.7	55.4	54.7	52.5	76.9	54.7	55.9
ALABAMA	2.2	6.2	1.8	3.9	6.7	5.1	5.6	8.4	12.3	5.3	6.5
KENTUCKY	.3	.4	.8	.3	.1	*	.2	-	-	-	*
MISSISSIPPI	3.7	.2	.8	.4	.4	13.0	15.2	4.8	4.1	11.5	6.0
TENNESSEE	11.7	24.0	13.4	13.7	20.5	37.4	33.6	39.3	60.5	37.8	43.4
WEST SOUTH CENTRAL	17.3	8.0	9.4	11.7	11.2	11.9	8.2	8.9	11.1	17.2	34.6
ARKANSAS	.2	-	.1	*	.1	.2	.4	.7	.9	2.8	.9
LOUISIANA	1.5	.5	1.1	5.1	.5	.4	4.6	.3	2.3	3.6	20.9
OKLAHOMA	.2	.9	.1	.1	.2	.1	.1	.3	.2	.4	1.0
TEXAS	15.3	6.5	8.1	6.5	10.4	11.1	6.1	7.6	7.8	10.4	11.8
MOUNTAIN	77.8	135.3	112.4	102.4	84.1	95.5	86.2	104.9	123.8	195.6	210.2
ARIZONA	10.9	2.0	1.6	1.3	2.3	.5	3.6	1.3	2.7	1.6	33.9
COLORADO	2.8	4.3	5.2	8.2	16.2	21.9	7.9	4.9	12.0	12.7	11.6
IDAHO	8.8	31.0	23.0	20.3	5.4	6.3	11.0	16.2	19.7	26.1	35.6
MONTANA	.2	.5	*	.5	.1	.1	.1	.3	.1	.8	*
NEVADA	11.0	17.1	17.2	16.9	17.5	14.4	9.2	11.7	11.7	14.8	18.5
NEW MEXICO	43.2	77.5	63.6	54.1	41.6	51.6	50.3	68.1	76.6	137.9	101.7
UTAH	.3	2.9	1.0	.6	1.0	.5	4.1	2.1	.8	1.5	8.0
WYOMING	.1	.1	.6	.4	*	.2	*	.3	.2	.3	.9
PACIFIC	114.9	145.0	104.4	178.3	156.3	176.7	243.8	305.9	256.1	417.8	381.9
ALASKA	2.1	3.0	.5	1.4	.7	.5	.1	.9	.8	.6	.7
CALIFORNIA	92.2	121.2	85.9	119.8	123.4	128.0	141.1	151.1	147.3	303.3	259.5
HAWAII	3.7	.8	.5	2.2	.9	.4	.4	6.2	2.8	.5	.7
OREGON	2.4	1.5	2.3	1.2	1.2	.1	.1	1.2	2.0	*	2.6
WASHINGTON	14.6	18.6	15.3	53.7	30.2	47.8	102.1	146.5	103.1	113.4	118.3
OUTLYING AREAS	7.2	4.6	3.5	5.2	1.8	1.4	.6	.5	.3	.1	1.7
OFFICES ABROAD	1.6	20.7	5.3	10.8	8.2	24.1	.2	1.1	1.0	1.9	3.9

* INDICATES AMOUNT LESS THAN $50,000.

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-PLANT-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D PLANT OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION